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STIC-Biotech/ChemLib

110474

From: Borin, Michael
Sent: Monday, December 15, 2003 3:56 PM
To: STIC-Biotech/ChemLib
Subject: Search request: 10/027038

Examiner: M. Borin
CM1 12A01
AU: 1631; Mailbox 12D01

Tel.: 305-4506

RE: 10/027038; peptide conjugates

Please conduct search of polypeptide SEQ ID 11 against the commercial and interference protein databases.

Thank you

Searcher: _____
Phone: _____
Location: _____
Date Picked Up: 12/15/03
Date Completed: 12/15/03
Searcher Prep/Review: _____
Clerical: _____
Online time: _____

TYPE OF SEARCH:
NA Sequences: _____
AA Sequences: _____
Structures: _____
Bibliographic: _____
Litigation: _____
Full text: _____
Patent Family: _____
Other: _____

VENDOR/COST (where applic.)
STN: _____
DIALOG: _____
Questel/Orbit: _____
DRLink: _____
Lexis/Nexis: _____
Sequence Sys.: asp
WWW/Internet: _____
Other (specify): _____



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 110474

TO: Michael Borin
Location: CM-1/12A01/12D01
Art Unit: 1631
Wednesday, December 17, 2003

Case Serial Number: 10/027038

From: Edward Hart
Location: Biotech-Chem Library
CM1-6B02
Phone: 305-9203

edward.hart@uspto.gov

Search Notes

Examiner Borin,

Here are the results of the search you requested.

Please feel free to contact me if you have any questions.

Edward Hart

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OM protein - protein search, using sw model

Run on: December 17, 2003, 16:19:10 ; Search time 22 seconds
(without alignments)
69.236 Million cell updates/sec

Title: US-10-027-038-11

Perfect score: 211
Sequence: 1 MCPSPPTYPGDPGPVEDLIRFYDNLQGMNCVTAAAC 36

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA: *
1: /cgn2_6/ptodata/1/1aa/5A COMB.pep: *
2: /cgn2_6/ptodata/1/1aa/5B COMB.pep: *
3: /cgn2_6/ptodata/1/1aa/6A COMB.pep: *
4: /cgn2_6/ptodata/1/1aa/6B COMB.pep: *
5: /cgn2_6/ptodata/1/1aa/PCTUS-14303-1
6: /cgn2_6/ptodata/1/1aa/Backfile1.pep: *

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	ID	Description
1	147	69.7	36 1 US-07-776-272-18	Sequence 18, Appl
2	86	40.8	36 1 US-07-882-923-1	Sequence 1, Appl
3	86	40.8	36 1 US-08-564-030-1	Sequence 1, Appl
4	86	40.8	36 1 US-08-338-395-4	Sequence 4, Appl
5	86	40.8	36 3 US-08-907-403A-2	Sequence 2, Appl
6	86	40.8	36 4 US-09-181-941-5	Sequence 5, Appl
7	86	40.8	36 5 PCT-US95-14303-4	Sequence 4, Appl
8	84	39.8	36 1 US-07-882-923-2	Sequence 2, Appl
9	84	39.8	36 1 US-08-338-395-3	Sequence 3, Appl
10	84	39.8	36 1 US-08-329-151-24	Sequence 24, Appl
11	84	39.8	36 3 US-08-907-403A-1	Sequence 1, Appl
12	84	39.8	36 5 PCT-US95-14303-3	Sequence 1, Appl
13	84	39.8	97 3 US-09-054-393-1	Sequence 1, Appl
14	84	39.8	97 3 US-08-594-946A-6	Sequence 6, Appl
15	84	39.8	97 4 US-09-229-900-1	Sequence 1, Appl
16	84	39.8	97 4 US-09-291-994-6	Sequence 6, Appl
17	81	38.4	36 4 US-09-181-941-3	Sequence 1, Appl
18	72	34.1	32 4 US-09-125-138-10	Sequence 10, Appl
19	72	34.1	36 1 US-07-882-923-3	Sequence 3, Appl
20	72	34.1	36 1 US-08-338-395-1	Sequence 1, Appl
21	72	34.1	36 1 US-08-329-151-1	Sequence 1, Appl
22	72	34.1	36 3 US-09-047-986B-1	Sequence 1, Appl
23	72	34.1	36 4 US-09-181-941-4	Sequence 4, Appl
24	72	34.1	36 5 PCT-US95-14303-1	Sequence 1, Appl
25	72	34.1	63 4 US-09-529-727-4	Sequence 4, Appl
26	71	33.6	36 1 US-08-329-151-9	Sequence 9, Appl
27	68	32.2	36 1 US-08-338-395-2	Sequence 2, Appl

28	68	32.2	36 1 US-08-329-151-2	Sequence 2, Appl
29	68	32.2	36 3 US-09-054-393-2	Sequence 2, Appl
30	68	32.2	36 3 US-09-047-986B-2	Sequence 2, Appl
31	68	32.2	36 3 US-09-229-900-2	Sequence 2, Appl
32	68	32.2	36 5 PCT-US95-14303-2	Sequence 2, Appl
33	66	31.3	24 3 US-09-054-393-5	Sequence 5, Appl
34	66	31.3	24 3 US-09-229-900-5	Sequence 5, Appl
35	63	29.9	36 2 US-08-806-203-1	Sequence 1, Appl
36	58.5	27.7	31 1 US-07-776-272-23	Sequence 23, Appl
37	57	27.0	287 2 US-08-437-607A-2	Sequence 2, Appl
38	54	25.6	36 4 US-09-181-941-2	Sequence 2, Appl
39	53	25.1	694 4 US-09-433-043B-126	Sequence 126, App
40	53	25.1	752 3 US-08-975-762-61	Sequence 61, Appl
41	53	25.1	752 3 US-09-295-028-61	Sequence 61, Appl
42	53	25.1	752 4 US-09-106-583-61	Sequence 61, Appl
43	53	25.1	1404 4 US-09-345-473B-24	Sequence 24, Appl
44	52	24.6	36 4 US-09-181-941-1	Sequence 1, Appl
45	52	24.6	228 4 US-09-336-536-11	Sequence 11, Appl

ALIGNMENTS

RESULT 1
US-07-776-272-18
Sequence 18, Application US/0776272
Patent No. 5612454
GENERAL INFORMATION:
APPLICANT: Kamitama, Toshitiko
APPLICANT: Iida, Toshii
APPLICANT: Tajima, Masahiro
TITLE OF INVENTION: Process for Purification of Polypeptide
NUMBER OF SEQUENCES: 31
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wegner, Cantor, Mueller & Player
STREET: 1233 20th St. N.W. P.O. Box 18218
CITY: Washington
STATE: District of Columbia
COUNTRY: United States of America
ZIP: 20036-8218
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/776,272
FILING DATE: 19911129
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: Player, William E
REGISTRATION NUMBER: 31,409
REFERENCE/DOCKET NUMBER: P-450-23167
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-887-0400
TELEFAX: 202-887-0605
TELEX: 440706
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:
LENGTH: 36 amino acids
TYPE: AMINO ACID
TOPOLOGY: linear
MOLECULAR TYPE: peptide
HYPOTHETICAL: YES
ORIGINAL SOURCE:
ORGANISM: Avian
US-07-776-272-18
Query Match 69.7%, Score 147, DB 1, Length 36;
Best Local Similarity 87.1%, Pred. No. 3.4e-12;
Matches 27, Conservative 1, Mismatches 3, Indels 0, Gaps 0;
QY 3 PSQPTYPGDPGPVEDLIRFYDNLQGMNCVTAAAC 33

Db 2 PSQPTPGDPAVEDLIRFYDNLQOYINVT 32

RESULT 2
US-07-882-923-1

Sequence 1, Application US/07882923

Patent No. 5328899

GENERAL INFORMATION:

APPLICANT: Boudlik, Jaroslav H.

APPLICANT: Rivier, Jean E.F.

APPLICANT: Brown, Marvin R.

APPLICANT: Scott, Neal A.

TITLE OF INVENTION: NPY PEPTIDE ANALOGS

NUMBER OF SEQUENCES: 14

CORRESPONDENCE ADDRESS:

ADDRESSER: Fitch, Even, Tabin & Flannery

STREET: 4250 Executive Square, Suite 510

CITY: La Jolla

STATE: CA

COUNTRY: USA

ZIP: 92037

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/07/882,923

CLASSIFICATION: 514

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/503,198

FILING DATE: 30-MAR-1990

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/219,596

FILING DATE: 15-JUL-1988

ATTORNEY/AGENT INFORMATION:

NAME: Schumann, James J.

REGISTRATION NUMBER: 20,856

TELECOMMUNICATION INFORMATION:

TELEPHONE: 619-552-1311

TELEFAX: 619-552-0095

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 36 amino acids

TYPE: AMINO ACID

TOPOLOGY: unknown

MOLECULE TYPE: peptide

US-07-882-923-1

Query Match 40.8%; Score 86; DB 1; Length 36;
Best Local Similarity 45.2%; Pred. No. 0.00021;
Matches 14; Conservative 7; Mismatches 10; Indels 0; Gaps 0;

Db 3 PSQPTPGDPAVEDLIRFYDNLQOYINVT 33

2 PSKPDNPGDPAVEDLIRFYDNLQOYINVT 32

RESULT 3
US-08-264-030-1

Sequence 1, Application US/08264030

Patent No. 5569742

GENERAL INFORMATION:

APPLICANT: KIRBY, Dean A.

APPLICANT: RIVIER, Jean E.F.

TITLE OF INVENTION: CENTRALLY TRUNCATED NPY CYCLIC PEPTIDE

TITLE OF INVENTION: ANALOGS

NUMBER OF SEQUENCES: 11

CORRESPONDENCE ADDRESS:

ADDRESSER: Fitch, Even, Tabin & Flannery

STREET: 135 South La Salle Street, Suite 900

CITY: Chicago

STATE: IL

COUNTRY: USA

ZIP: 60603

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/264,030

FILING DATE:

CLASSIFICATION: 530

ATTORNEY/AGENT INFORMATION:

NAME: Schumann, James J.

REGISTRATION NUMBER: 20,856

REFERENCE/DOCKET NUMBER: 55649

TELECOMMUNICATION INFORMATION:

TELEPHONE: (619) 552-1311

TELEFAX: (619) 552-0095

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 36 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: peptide

HYPOTHETICAL: NO

ANTI-SENSE: NO

US-08-264-030-1

Query Match 40.8%; Score 86; DB 1; Length 36;
Best Local Similarity 45.2%; Pred. No. 0.00021;
Matches 14; Conservative 7; Mismatches 10; Indels 0; Gaps 0;

Db 3 PSQPTPGDPAVEDLIRFYDNLQOYINVT 33

2 PSKPDNPGDPAVEDLIRFYDNLQOYINVT 32

RESULT 4
US-08-338-395-4

Sequence 4, Application US/08338395

Patent No. 5574010

GENERAL INFORMATION:

APPLICANT: McFadden, David W

TITLE OF INVENTION: TREATMENT OF PANCREATIC TUMORS WITH

TITLE OF INVENTION: PEPTIDE YY AND ANALOGS THEREOF

NUMBER OF SEQUENCES: 5

CORRESPONDENCE ADDRESS:

ADDRESSER: POMS, SMITH, LANDS & ROSE

STREET: 2029 Century Park East 38th Floor

CITY: Los Angeles

STATE: CA

COUNTRY: USA

ZIP: 90067

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/338,395

FILING DATE:

CLASSIFICATION: 514

ATTORNEY/AGENT INFORMATION:

NAME: Oldenkamp, David J

REGISTRATION NUMBER: 29421

REFERENCE/DOCKET NUMBER: 107012

TELECOMMUNICATION INFORMATION:

TELEPHONE: 310-788-5046

TELEFAX: 310-277-1297

INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 36 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
ORIGINAL SOURCE:
ORGANISM: PORCINE NEURAL PEPTIDE Y
US-08-338-395-4

Query Match 40.8%; Score 86; DB 1; Length 36;
Best Local Similarity 45.2%; Pred. No. 0.00021;
Matches 14; Conservative 7; Mismatches 10; Indels 0; Gaps 0;

QY 3 PSQPTYPGDPGPEVDLIRFYDNLQOMLNCVT 33
DB 2 PSKPDNPGEDAPAEADLARYSALRHYINLIT 32

RESULT 5
US-08-907-403A-2
Sequence 2, Application US/08907403A
Patent No. 6013633
GENERAL INFORMATION:
APPLICANT: Balaubdrumantium, Ambikaipakan
APPLICANT: Chance, William T.
TITLE OF INVENTION: Compounds For Control
TITLE OF INVENTION: Of Appetite, Blood Pressure, Cardiovascular
TITLE OF INVENTION: Response, Libido, And Circadian Rhythm
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSER: Wood, Heiron & Evans, L.L.P.
STREET: 441 Vine Street
CITY: Cincinnati
STATE: Ohio
COUNTRY: USA
ZIP: 45202-2917
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch,
MEDIUM TYPE: 1.44 MB storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows 95
SOFTWARE: Microsoft Word
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/907,403A
FILING DATE: 07-AUG-1997
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/023,588
FILING DATE: 09-AUG-1996
ATTORNEY/AGENT INFORMATION:
NAME: Albalany-Jenel, Stephen R.
REGISTRATION NUMBER: 41,487
REFERENCE/DOCKET NUMBER: UOC-113A-111
TELECOMMUNICATION INFORMATION:
TELEPHONE: (513) 241-2324
TELEFAX: 421-7269
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 36
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHEICAL: no
ANTI-SENSE: no
US-08-907-403A-2

Query Match 40.8%; Score 86; DB 3; Length 36;
Best Local Similarity 45.2%; Pred. No. 0.00021;
Matches 14; Conservative 7; Mismatches 10; Indels 0; Gaps 0;

QY 3 PSQPTYPGDPGPEVDLIRFYDNLQOMLNCVT 33

DB 2 PSKPDNPGEDAPAEADLARYSALRHYINLIT 32

RESULT 6
US-09-181-941-5
Sequence 5, Application US/09181941
Patent No. 6440690
GENERAL INFORMATION:
APPLICANT: Mor, Amram
Vouldoukis, Ioannis
Nicolas, Pierre
TITLE OF INVENTION: PEPTIDES FOR THE ACTIVATION
OF THE IMMUNE SYSTEM IN HUMANS AND ANIMALS
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSER: Pennie & Edmonds LLP
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: NY
COUNTRY: USA
ZIP: 10036-2811
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows
SOFTWARE: FastSeq for Windows Version 2.0b
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/181,941
FILING DATE: 28-Oct-1998
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/574,701
FILING DATE: 19-DEC-1995
APPLICATION NUMBER: FR 95 07831
FILING DATE: 29-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Coruzzi, Laura A.
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 3909-0021-999
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-493-4935
TELEFAX: 650-493-5556
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 36 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: No. 6440690e
SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-09-181-941-5

Query Match 40.8%; Score 86; DB 4; Length 36;
Best Local Similarity 45.2%; Pred. No. 0.00021;
Matches 14; Conservative 7; Mismatches 10; Indels 0; Gaps 0;

QY 3 PSQPTYPGDPGPEVDLIRFYDNLQOMLNCVT 33
DB 2 PSKPDNPGEDAPAEADLARYSALRHYINLIT 32

RESULT 7
PCT-US95-14303-4
Sequence 4, Application PC/TUS9514303
GENERAL INFORMATION:
APPLICANT: McFadden, David W.
TITLE OF INVENTION: TREATMENT OF PANCREATIC TUMORS
TITLE OF INVENTION: WITH PEPTIDE YY AND ANALOGS THEREOF
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSER: POWS, SMITH, LANDE & ROSE

STREET: 2029 Century Park East 38th Floor
CITY: Los Angeles
STATE: CA
COUNTRY: USA
ZIP: 90067
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/14303
FILING DATE: 03 November 1995
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Oldenkamp, David J
REGISTRATION NUMBER: 29421
REFERENCE/DOCKET NUMBER: 107012F
TELECOMMUNICATION INFORMATION:
TELEPHONE: 310-788-5046
TELEFAX: 310-277-1297
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 36 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
ORIGINAL SOURCE:
ORGANISM: PORCINE NEURAL PEPTIDE Y
PCT-US95-14303-4

Query Match 40.8%; Score 86; DB 5; Length 36;
Best Local Similarity 45.2%; Pred. No. 0.00021;
Matches 14; Conservative 7; Mismatches 10; Indels 0; Gaps 0;

QY 3 PSQPTYPGDPGVEDLIRFYDNLQOMLNCVT 33
DB 2 PSKPDNPGSDAPADMDARYYSALRHYNILIT 32

RESULT 8
US-07-882-923-2
Sequence 2, Application US/07882923
Patent No. 5328899
GENERAL INFORMATION:
APPLICANT: Boublik, Jaroslav H.
APPLICANT: Rivier, Jean E.F.
APPLICANT: Brown, Marvin R.
APPLICANT: Scott, Neal A.
TITLE OF INVENTION: NPY PEPTIDE ANALOGS
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSER: Fitch, Even, Tabin & Flannery
STREET: 4250 Executive Square, Suite 510
CITY: La Jolla
STATE: CA
COUNTRY: USA
ZIP: 92037
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/882,923
FILING DATE: 19920512
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/503,198
FILING DATE: 30-MAR-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/219,596
FILING DATE: 15-JUL-1988

ATTORNEY/AGENT INFORMATION:
NAME: Schumann, James J.
REGISTRATION NUMBER: 20,856
REFERENCE/DOCKET NUMBER: 52864
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619-552-1311
TELEFAX: 619-552-0095
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 36 amino acids
TYPE: AMINO ACID
TOPOLOGY: unknown
MOLECULE TYPE: peptide
US-07-882-923-2

Query Match 39.8%; Score 84; DB 1; Length 36;
Best Local Similarity 41.9%; Pred. No. 0.00038;
Matches 13; Conservative 8; Mismatches 10; Indels 0; Gaps 0;

QY 3 PSQPTYPGDPGVEDLIRFYDNLQOMLNCVT 33
DB 2 PSKPDNPGSDAPADMDARYYSALRHYNILIT 32

RESULT 9
US-08-338-395-3
Sequence 3, Application US/08338395
Patent No. 5574010
GENERAL INFORMATION:
APPLICANT: McFadden, David W
TITLE OF INVENTION: TREATMENT OF PANCREATIC TUMORS WITH
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSER: POWS, SMITH, LANDE & ROSE
STREET: 2029 Century Park East 38th Floor
CITY: Los Angeles
STATE: CA
COUNTRY: USA
ZIP: 90067
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/338,395
FILING DATE:
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Oldenkamp, David J
REGISTRATION NUMBER: 29421
REFERENCE/DOCKET NUMBER: 107012
TELECOMMUNICATION INFORMATION:
TELEPHONE: 310-788-5046
TELEFAX: 310-277-1297
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 36 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
ORIGINAL SOURCE:
ORGANISM: HUMAN NEUROPEPTIDE Y
US-08-338-395-3

Query Match 39.8%; Score 84; DB 1; Length 36;
Best Local Similarity 41.9%; Pred. No. 0.00038;
Matches 13; Conservative 8; Mismatches 10; Indels 0; Gaps 0;

QY 3 PSQPTYPGDPGVEDLIRFYDNLQOMLNCVT 33
DB 2 PSKPDNPGSDAPADMDARYYSALRHYNILIT 32

RESULT 10

US-08-329-151-24
Sequence 24, Application US/08329151
Patent No. 5604203

GENERAL INFORMATION:

APPLICANT: Balasubramanian, A.
TITLE OF INVENTION: ANALOGS OF PEPTIDE YY AND USES
TITLE OF INVENTION: THERIOF
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson
STREET: 225 Franklin Street
CITY: Boston
STATE: Massachusetts
COUNTRY: U.S.A.
ZIP: 02110-2804

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5" Diskette, 1.44 MB
COMPUTER: IBM PS/2 Model 502 or 55SX
OPERATING SYSTEM: MS-DOS (Version 5.0)
SOFTWARE: Wordperfect (Version 5.1)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/329,151
FILING DATE:
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/038,534
FILING DATE: 3/29/93
APPLICATION NUMBER: 08/109,326
FILING DATE: 08/19/93
ATTORNEY/AGENT INFORMATION:
NAME: Paul T. Clark
REGISTRATION NUMBER: 30,162
REFERENCE/DOCKET NUMBER: 00537/105001
TELEPHONE: (617) 542-5070
TELEFAX: (617) 542-8906
TELEX: 200154

INFORMATION FOR SEQ ID NO: 24:

SEQUENCE CHARACTERISTICS:
LENGTH: 36
TYPE: amino acid
STRANDEDNESS: N/A
TOPOLOGY: linear
FEATURE:

OTHER INFORMATION: The sequence has an amide C-terminus
OTHER INFORMATION: (i.e., CO-NH2), rather than a carboxyl C-terminus (i.e., CO-C

Query Match 39.8%; Score 84; DB 1; Length 36;

Best Local Similarity 41.9%; Pred. No. 0.00038;
Matches 13; Conservative 8; Mismatches 10; Indels 0; Gaps 0;

Qy 3 PSQLTPGDPGVEEDLIRFYDNLQOMLNCVT 33
Db 2 PSLKPDNPGEDAPADMDARYTSALRHYINILIT 32

RESULT 11

US-08-907-403A-1
Sequence 1, Application US/08907403A
Patent No. 6013633

GENERAL INFORMATION:

APPLICANT: Balasubramanian, Ambikaipakan
APPLICANT: Chance, William T.
TITLE OF INVENTION: Compounds For Control
TITLE OF INVENTION: Of Appetite, Blood Pressure, Cardiovascular
TITLE OF INVENTION: Response, Libido, And Circadian Rhythm
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wood, Heiron & Evans, L.L.P.

STREET: 441 Vine Street

CITY: Cincinnati

STATE: Ohio

COUNTRY: USA

ZIP: 45202-2917

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.50 inch,
MEDIUM TYPE: 1.44 MB storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows 95
SOFTWARE: Microsoft Word
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/907,403A
FILING DATE: 07-AUG-1997
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/023,568
FILING DATE: 09-AUG-1996
ATTORNEY/AGENT INFORMATION:
NAME: Albainy-Jenet, Stephen R.
REGISTRATION NUMBER: 41,487
REFERENCE/DOCKET NUMBER: UOC-113A-111
TELEPHONE: (513) 241-2324
TELEFAX: (513) 421-7269
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 36
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHEICAL: no
ANTI-SENSE: no

US-08-907-403A-1

Query Match

Best Local Similarity 39.8%; Score 84; DB 3; Length 36;
Matches 13; Conservative 8; Mismatches 10; Indels 0; Gaps 0;

Qy 3 PSQLTPGDPGVEEDLIRFYDNLQOMLNCVT 33
Db 2 PSLKPDNPGEDAPADMDARYTSALRHYINILIT 32

RESULT 12

PCT-US95-14303-3
Sequence 3, Application PC/TUS9514303
GENERAL INFORMATION:

APPLICANT: McPadden, David W
TITLE OF INVENTION: TREATMENT OF PANCREATIC TUMORS
TITLE OF INVENTION: WITH PEPTIDE YY AND ANALOGS THERIOF
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSEE: PONS, SMITH, LANDS & ROSE
STREET: 2029 Century Park East 38th Floor
CITY: Los Angeles
STATE: CA
COUNTRY: USA
ZIP: 90067

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/14303
FILING DATE: 03 November 1995
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Oldenkamp, David J
REGISTRATION NUMBER: 29421
REFERENCE/DOCKET NUMBER: 107012P

TELECOMMUNICATION INFORMATION:
TELEPHONE: 310-788-5046
TELEFAX: 310-277-1297
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 36 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
ORIGINAL SOURCE:
ORGANISM: HUMAN NEUROPEPTIDE Y
PCT-US95-14303-3

Query Match 39.8%; Score 84; DB 5; Length 36;
Best Local Similarity 41.9%; Pred. No. 0.00038;
Matches 13; Conservative 8; Mismatches 10; Indels 0; Gaps 0;

QY 3 PSQPTYPGDPGPEVDLIRFYDNLQOMLNCVT 33
DB 2 PSKPDNPGEDAPADMDARYYSALRHYNILIT 32

RESULT 13
US-09-054-393-1
Sequence 1, Application US/09054393
Patent No. 6017879
GENERAL INFORMATION:
APPLICANT: Mutter, Manfred
APPLICANT: Lacroix, Jean S.
APPLICANT: Grouzmann, Eric
TITLE OF INVENTION: Template Associated NPY Y2-Receptor
TITLE OF INVENTION: Agonists
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: Vinson & Elkins LLP
STREET: 1455 Pennsylvania Avenue, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.
ZIP: 20004-1008
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/054,393
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Sanzo, Michael A.
REGISTRATION NUMBER: 36,912
REFERENCE/DOCKET NUMBER: EWR350/48000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)639-6585
TELEFAX: (202)639-6604
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 97 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: not relevant
MOLECULE TYPE: peptide
HYPOTHEICAL: NO
ANTI-SENSE: NO
US-09-054-393-1

Query Match 39.8%; Score 84; DB 3; Length 97;
Best Local Similarity 41.9%; Pred. No. 0.0011;
Matches 13; Conservative 8; Mismatches 10; Indels 0; Gaps 0;

QY 3 PSQPTYPGDPGPEVDLIRFYDNLQOMLNCVT 33
DB 2 PSKPDNPGEDAPADMDARYYSALRHYNILIT 32

DB 30 PSKPDNPGEDAPADMDARYYSALRHYNILIT 60

RESULT 14
US-08-994-946A-6
Sequence 6, Application US/08994946A
Patent No. 6046317
GENERAL INFORMATION:
APPLICANT: Koulu, Markku
APPLICANT: Karvonen, Matti
APPLICANT: Pesonen, Ullamari
APPLICANT: Uusitupa, Matti
TITLE OF INVENTION: A DNA Molecule Encoding a Mutant
TITLE OF INVENTION: Prepro-Neuropeptide Y, a Mutant Signal Peptide, and Uses
TITLE OF INVENTION: Theoreof
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: Rothwell, Pigg, Ernst & Kurtz, P.C.
STREET: 555 13th Street NW, Suite 701-E
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/994,946A
FILING DATE: 19-DEC-1997
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Ihnen, Jeffrey L.
REGISTRATION NUMBER: 28,957
REFERENCE/DOCKET NUMBER: 2328-110
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-783-6040
TELEFAX: 202-783-6031
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 97 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-994-946A-6

Query Match 39.8%; Score 84; DB 3; Length 97;
Best Local Similarity 41.9%; Pred. No. 0.0011;
Matches 13; Conservative 8; Mismatches 10; Indels 0; Gaps 0;

QY 3 PSQPTYPGDPGPEVDLIRFYDNLQOMLNCVT 33
DB 30 PSKPDNPGEDAPADMDARYYSALRHYNILIT 60

RESULT 15
US-09-229-900-1
Sequence 1, Application US/09229900
Patent No. 6288029
GENERAL INFORMATION:
APPLICANT: Mutter, Manfred
APPLICANT: Lacroix, Jean S.
APPLICANT: Grouzmann, Eric
TITLE OF INVENTION: Template Associated NPY Y2-Receptor
TITLE OF INVENTION: Agonists
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: Vinson & Elkins LLP
STREET: 1455 Pennsylvania Avenue, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.

```

1  ZIP: 20004-1008
2  COMPUTER READABLE FORM:
3  MEDIUM TYPE: Floppy disk
4  COMPUTER: IBM PC compatible
5  OPERATING SYSTEM: PC-DOS/MS-DOS
6  SOFTWARE: PatentIn Release #1.0, Version #1.30
7  CURRENT APPLICATION DATA:
8  APPLICATION NUMBER: US/09/229,900
9  FILING DATE:
10 CLASSIFICATION:
11 ATTORNEY/AGENT INFORMATION:
12 NAME: Sanzo, Michael A.
13 REGISTRATION NUMBER: 36,912
14 REFERENCE/DOCKET NUMBER: BMR350/48000
15 TELECOMMUNICATION INFORMATION:
16 TELEPHONE: (202)639-6585
17 TELEFAX: (202)639-6604
18 INFORMATION FOR SEQ ID NO: 1:
19 SEQUENCE CHARACTERISTICS:
20 LENGTH: 97 amino acids
21 TYPE: amino acid
22 STRANDEDNESS: not relevant
23 TOPOLOGY: not relevant
24 MOLECULAR TYPE: peptide
25 HYPOTHEICAL: NO
26 ANTI-SENSE: NO
27 US-09-229-900-1

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Query Match 39.8%; Score 84; DB 3; Length 97;
Best Local Similarity 41.9%; Pred. No. 0.0011;
Matches 13; Conservative 8; Mismatches 10; Indels 0; Gaps 0;
QY 3 PSQPTYPGDDPGVPEDLIRFYDNLQOWLNQVT 33
DB 30 PSKPDNPGSDAPADWARYYSALRHYINLIT 60

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Search completed: December 17, 2003, 16:27:55
 Job time : 22 secs

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RESULT 2
US-09-618-361B-1
Sequence 1, Application US/09618361B
GENERAL INFORMATION:
APPLICANT: Balasubramaniam, Ambikaipakan
APPLICANT: Chance, William T.
APPLICANT: University of Cincinnati
TITLE OF INVENTION: Compounds for Control of Appetite, Blood Pressure,
TITLE OF INVENTION: Cardiovascular Response, Libido and Circadian Rhythm
FILE REFERENCE: UOC-136R
CURRENT APPLICATION NUMBER: US/09/618,361B
CURRENT FILING DATE: 2000-07-18
PRIOR APPLICATION NUMBER: US/09/449,914
PRIOR FILING DATE: 1999-12-02
NUMBER OF SEQ ID NOS: 7
SOFTWARE: PatentIn Version 3.1
SEQ ID NO 1

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LENGTH: 36
TYPE: PRT
ORGANISM: Homo sapiens
US-09-618-361B-1

Query Match 39.8%; Score 84; DB 5; Length 36;
Best Local Similarity 41.9%; Pred. No. 0.0001;
Matches 13; Conservative 8; Mismatches 10; Indels 0; Gaps 0;

QY 3 PSQPTYPGDPGVEDLIRFYDNLQOQWLNCT 33
DB 2 PSKPDNPGEDAPADMDARYYSALRHYINLIT 32

RESULT 3
PCT-US03-20245-6
Sequence 6, Application PC/TUS0320245
GENERAL INFORMATION:
APPLICANT: Qian, Su
APPLICANT: Van der Ploeg, Leonardus, H.T.
APPLICANT: Chen, Howard
APPLICANT: Weingarth, Drew T.
APPLICANT: Trumbauer, Myrna
APPLICANT: Metzger, Joseph M.
TITLE OF INVENTION: Agouti-related protein deficient cells,
TITLE OF INVENTION: non-human transgenic animals and methods of selecting
TITLE OF INVENTION: compounds which regulate energy metabolism
FILE REFERENCE: 21033Y PCT
CURRENT APPLICATION NUMBER: PCT/US03/20245
CURRENT FILING DATE: 2003-06-27
PRIOR APPLICATION NUMBER: 60/393,391
PRIOR FILING DATE: 2002-07-03
NUMBER OF SEQ ID NOS: 14
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 6
LENGTH: 97
TYPE: PRT
ORGANISM: Mus musculus
PCT-US03-20245-6

Query Match 39.8%; Score 84; DB 1; Length 97;
Best Local Similarity 41.9%; Pred. No. 0.0003;
Matches 13; Conservative 8; Mismatches 10; Indels 0; Gaps 0;

QY 3 PSQPTYPGDPGVEDLIRFYDNLQOQWLNCT 33
DB 30 PSKPDNPGEDAPADMDARYYSALRHYINLIT 60

RESULT 4
PCT-US03-20245-8
Sequence 8, Application PC/TUS0320245
GENERAL INFORMATION:
APPLICANT: Qian, Su
APPLICANT: Van der Ploeg, Leonardus, H.T.
APPLICANT: Chen, Howard
APPLICANT: Weingarth, Drew T.
APPLICANT: Trumbauer, Myrna
APPLICANT: Metzger, Joseph M.
TITLE OF INVENTION: Agouti-related protein deficient cells,
TITLE OF INVENTION: non-human transgenic animals and methods of selecting
TITLE OF INVENTION: compounds which regulate energy metabolism
FILE REFERENCE: 21033Y PCT
CURRENT APPLICATION NUMBER: PCT/US03/20245
CURRENT FILING DATE: 2003-06-27
PRIOR APPLICATION NUMBER: 60/393,391
PRIOR FILING DATE: 2002-07-03
NUMBER OF SEQ ID NOS: 14
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 8
LENGTH: 97
TYPE: PRT
ORGANISM: Homo sapiens

PCT-US03-20245-8

Query Match 39.8%; Score 84; DB 1; Length 97;
Best Local Similarity 41.9%; Pred. No. 0.0003;
Matches 13; Conservative 8; Mismatches 10; Indels 0; Gaps 0;

QY 3 PSQPTYPGDPGVEDLIRFYDNLQOQWLNCT 33
DB 30 PSKPDNPGEDAPADMDARYYSALRHYINLIT 60

RESULT 5
US-10-463-803A-1
Sequence 1, Application US/10463803A
GENERAL INFORMATION:
APPLICANT: Mutter, Manfred
Lacroix, Jean S.
Grouzmann, Eric
TITLE OF INVENTION: Template Associated NPX Y2-Receptor
Agonists
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: Vinsion & Elkins LLP
STREET: 1455 Pennsylvania Avenue, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.
ZIP: 20004-1008
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/463,803A
FILING DATE: 18-Jun-2003
CLASSIFICATION: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Sanzo, Michael A.
REGISTRATION NUMBER: 36,912
REFERENCE/DOCKET NUMBER: EMB350/48000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 639-6585
TELEFAX: (202) 639-6604
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 97 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: not relevant
MOLECULAR TYPE: peptide
HYPOTHEICAL: NO
ANTI-SENSE: NO
SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-10-463-803A-1

Query Match 39.8%; Score 84; DB 6; Length 97;
Best Local Similarity 41.9%; Pred. No. 0.0003;
Matches 13; Conservative 8; Mismatches 10; Indels 0; Gaps 0;

QY 3 PSQPTYPGDPGVEDLIRFYDNLQOQWLNCT 33
DB 30 PSKPDNPGEDAPADMDARYYSALRHYINLIT 60

RESULT 6
US-10-686-282-7
Sequence 7, Application US/10686282
GENERAL INFORMATION:
APPLICANT: Pfizer Inc.
APPLICANT: Pfizer Inc.
APPLICANT: Maw, Graham Nigel
APPLICANT: Wayman, Christopher Peter

TITLE OF INVENTION: Compounds for the Treatment of Female Sexual Dysfunction
FILE REFERENCE: PC10343D
CURRENT APPLICATION NUMBER: US/10/686,282
CURRENT FILING DATE: 2003-10-15
PRIOR APPLICATION NUMBER: US 09/708,392
PRIOR FILING DATE: 2000-11-08
PRIOR APPLICATION NUMBER: US 60/175,161
PRIOR FILING DATE: 2000-03-29
PRIOR APPLICATION NUMBER: GB 9926437.6
PRIOR FILING DATE: 1999-11-08
PRIOR APPLICATION NUMBER: GB 0004021.2
PRIOR FILING DATE: 2000-02-18
PRIOR APPLICATION NUMBER: GB 0013001.3
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: GB 0016563.9
PRIOR FILING DATE: 2000-07-05
PRIOR APPLICATION NUMBER: GB 0017141.3
PRIOR FILING DATE: 2000-07-12
PRIOR APPLICATION NUMBER: US 60/192,962
PRIOR FILING DATE: 2000-03-29
PRIOR APPLICATION NUMBER: US 60/217,479
PRIOR FILING DATE: 2000-07-11
PRIOR APPLICATION NUMBER: US 60/221,014
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 20
SOFTWARE: PatentIn version 3.2
SEQ ID NO 7
LENGTH: 97
TYPE: PRT
ORGANISM: Homo Sapiens
US-10-686-282-7

Query Match 39.8%; Score 84; DB 6; Length 97;
Best Local Similarity 41.9%; Pred. No. 0.0003;
Matches 13; Conservative 8; Mismatches 10; Indels 0; Gaps 0;

QY 3 PSQPTYPGDPGVEDLIRFYDNIQQWLNCTV 33
DB 30 PSKPDNFGEDAPADMDARYYSALRHYNLIT 60

RESULT 7
US-10-686-349-7
Sequence 7, Application US/10686349
GENERAL INFORMATION:
APPLICANT: Pfizer Inc.
APPLICANT: Pfizer Limited
APPLICANT: Maw, Graham Nigel
APPLICANT: Wayman, Christopher Peter
TITLE OF INVENTION: Compounds for the Treatment of Female Sexual Dysfunction
FILE REFERENCE: PC10343C
CURRENT APPLICATION NUMBER: US/10/686,349
CURRENT FILING DATE: 2003-10-15
PRIOR APPLICATION NUMBER: US 09/708,392
PRIOR FILING DATE: 2000-11-08
PRIOR APPLICATION NUMBER: US 60/175,161
PRIOR FILING DATE: 2000-03-29
PRIOR APPLICATION NUMBER: GB 9926437.6
PRIOR FILING DATE: 1999-11-08
PRIOR APPLICATION NUMBER: GB 0004021.2
PRIOR FILING DATE: 2000-02-18
PRIOR APPLICATION NUMBER: GB 0013001.3
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: GB 0016563.9
PRIOR FILING DATE: 2000-07-05
PRIOR APPLICATION NUMBER: GB 0017141.3
PRIOR FILING DATE: 2000-07-12
PRIOR APPLICATION NUMBER: US 60/192,962
PRIOR FILING DATE: 2000-03-29
PRIOR APPLICATION NUMBER: US 60/217,479
PRIOR FILING DATE: 2000-07-11
PRIOR APPLICATION NUMBER: US 60/221,014

PRIOR FILING DATE: 2000-07-27
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 20
SOFTWARE: PatentIn version 3.2
SEQ ID NO 7
LENGTH: 97
TYPE: PRT
ORGANISM: Homo Sapiens
US-10-686-349-7

Query Match 39.8%; Score 84; DB 6; Length 97;
Best Local Similarity 41.9%; Pred. No. 0.0003;
Matches 13; Conservative 8; Mismatches 10; Indels 0; Gaps 0;

QY 3 PSQPTYPGDPGVEDLIRFYDNIQQWLNCTV 33
DB 30 PSKPDNFGEDAPADMDARYYSALRHYNLIT 60

RESULT 8
PCT-US03-18657-2
Sequence 2, Application PC/TUS0318657
GENERAL INFORMATION:
APPLICANT: Amylin Pharmaceuticals, Inc.
TITLE OF INVENTION: Prevention and/or Treatment of Inflammatory Bowel Disease Using
FILE REFERENCE: 54061.8101.WOOD
CURRENT APPLICATION NUMBER: PCT/US03/18657
CURRENT FILING DATE: 2003-06-13
PRIOR APPLICATION NUMBER: 60/388,930
PRIOR FILING DATE: 2002-06-14
NUMBER OF SEQ ID NOS: 4
SOFTWARE: PatentIn version 3.2
SEQ ID NO 2
LENGTH: 36
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: MISC FEATURE
OTHER INFORMATION: Peptide YY (PY)
PCT-US03-18657-2

Query Match 32.2%; Score 68; DB 1; Length 36;
Best Local Similarity 41.9%; Pred. No. 0.015;
Matches 13; Conservative 7; Mismatches 11; Indels 0; Gaps 0;

QY 3 PSQPTYPGDPGVEDLIRFYDNIQQWLNCTV 33
DB 2 PIKPEAFGEDASPEBLNRYYSALRHYNLIT 32

RESULT 9
US-10-463-803A-2
Sequence 2, Application US/10463803A
GENERAL INFORMATION:
APPLICANT: Mutter, Manfred
APPLICANT: Lacroix, Jean S.
APPLICANT: Grouzmann, Eric
TITLE OF INVENTION: Template Associated NPX Y2-Receptor Agonists
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSER: Vinson & Elkins LLP
STREET: 1455 Pennsylvania Avenue, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.
ZIP: 20004-1008
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/463,803A
FILING DATE: 18-Jun-2003
CLASSIFICATION: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Sanzo, Michael A.
REGISTRATION NUMBER: 36,912
REFERENCE/DOCKET NUMBER: BMR350/48000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)639-6585
TELEFAX: (202)639-6604
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 36 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: not relevant
MOLECULAR TYPE: peptide
HYPOTHETICAL: NO
ANTI-SENSE: NO
SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-10-463-803A-2

Query Match 32.2%; Score 68; DB 6; Length 36;
Best Local Similarity 41.9%; Pred. No. 0.015;
Matches 13; Conservative 7; Mismatches 11; Indels 0; Gaps 0;

Qy 3 PSQPTYPGDPGVEDLIRFYDNLQOMLNCVT 33
Db 2 PIKPAPEGDASPEELNRYASLRHYLNLVT 32

RESULT 10
US-60-500-613-19
Sequence 19, Application US/60500613
GENERAL INFORMATION:
APPLICANT: Immonen, Tiina
APPLICANT: Sariola, Hannu
APPLICANT: Saarna, Mart
APPLICANT: Alakujala, Annina
APPLICANT: Paeterneck, Michael
APPLICANT: Roos, Christophe
TITLE OF INVENTION: GDNF-RELATED NEUROPEPTIDES
FILE REFERENCE: ICTD-0005
CURRENT APPLICATION NUMBER: US/60/500,613
CURRENT FILING DATE: 2003-09-05
NUMBER OF SEQ ID NOS: 23
SOFTWARE: PatentIn version 3.2
SEQ ID NO 19
LENGTH: 36
TYPE: PRT
ORGANISM: Homo sapiens
US-60-500-613-19

Query Match 32.2%; Score 68; DB 7; Length 36;
Best Local Similarity 41.9%; Pred. No. 0.015;
Matches 13; Conservative 7; Mismatches 11; Indels 0; Gaps 0;

Qy 3 PSQPTYPGDPGVEDLIRFYDNLQOMLNCVT 33
Db 2 PIKPAPEGDASPEELNRYASLRHYLNLVT 32

RESULT 11
US-60-490-890-1250
Sequence 1250, Application US/60490890
GENERAL INFORMATION:
APPLICANT: Li, Martha
APPLICANT: Runnow, Brent A.
APPLICANT: Webster, Kevin R.
APPLICANT: Jackson, Donald
APPLICANT: Wong, Tai W.
TITLE OF INVENTION: BIOMARKERS OF CYCLIN-DEPENDENT KINASE MODULATION

FILE REFERENCE: D0310 PSP
CURRENT APPLICATION NUMBER: US/60/490,890
CURRENT FILING DATE: 2003-07-29
NUMBER OF SEQ ID NOS: 2779
SOFTWARE: PatentIn version 3.2
SEQ ID NO 1250
LENGTH: 97
TYPE: PRT
ORGANISM: Homo sapiens
US-60-490-890-1250

Query Match 32.2%; Score 68; DB 7; Length 97;
Best Local Similarity 41.9%; Pred. No. 0.044;
Matches 13; Conservative 7; Mismatches 11; Indels 0; Gaps 0;

Qy 3 PSQPTYPGDPGVEDLIRFYDNLQOMLNCVT 33
Db 30 PIKPAPEGDASPEELNRYASLRHYLNLVT 60

RESULT 12
US-10-463-803A-5
Sequence 5, Application US/10463803A
GENERAL INFORMATION:
APPLICANT: Mutter, Manfred
APPLICANT: Lacroix, Jean S.
APPLICANT: Grouzmann, Eric
TITLE OF INVENTION: Template Associated NPY Y2-Receptor Agonists
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSER: Vinson & Elkins LLP
STREET: 1455 Pennsylvania Avenue, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.
ZIP: 20004-1008
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/463,803A
FILING DATE: 18-Jun-2003
CLASSIFICATION: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Sanzo, Michael A.
REGISTRATION NUMBER: 36,912
REFERENCE/DOCKET NUMBER: BMR350/48000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)639-6585
TELEFAX: (202)639-6604
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 24 amino acids
TYPE: amino acid
STRANDEDNESS: not relevant
TOPOLOGY: not relevant
MOLECULAR TYPE: peptide
HYPOTHETICAL: NO
ANTI-SENSE: NO
SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-10-463-803A-5

Query Match 31.3%; Score 66; DB 6; Length 24;
Best Local Similarity 47.8%; Pred. No. 0.018;
Matches 11; Conservative 4; Mismatches 8; Indels 0; Gaps 0;

Qy 3 PSQPTYPGDPGVEDLIRFYDNL 25
Db 2 PSKPNPGEADPAEDMAYISAL 24

RESULT 13
PCT-US03-18657-3
Sequence 16, Application PC/TUS0318657
GENERAL INFORMATION:
APPLICANT: Amylin Pharmaceuticals, Inc.
TITLE OF INVENTION: Prevention and/or Treatment of Inflammatory Bowel Disease Using
FILE REFERENCE: 54061.8101.WO00
CURRENT APPLICATION NUMBER: PCT/US03/18657
CURRENT FILING DATE: 2003-06-13
PRIOR APPLICATION NUMBER: 60/388,930
PRIOR FILING DATE: 2002-06-14
NUMBER OF SEQ ID NOS: 4
SOFTWARE: PatentIn version 3.2
SEQ ID NO 3
LENGTH: 34
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: MISC FEATURE
OTHER INFORMATION: Peptide YY[3-36]
PCT-US03-18657-3

Query Match 29.9%; Score 63; DB 1; Length 34;
Best Local Similarity 41.4%; Pred. No. 0.068;
Matches 12; Conservative 7; Mismatches 10; Indels 0; Gaps 0;

QY 5 QPTTPGDPGVEDLIRFYDNIQOMLNCVT 33
DB 2 KPEAPGSDASPEELNRYASLSRYLNLVT 30

RESULT 14
PCT-US03-18657-1
Sequence 1, Application PC/TUS0318657
GENERAL INFORMATION:
APPLICANT: Amylin Pharmaceuticals, Inc.
TITLE OF INVENTION: Prevention and/or Treatment of Inflammatory Bowel Disease Using
FILE REFERENCE: 54061.8101.WO00
CURRENT APPLICATION NUMBER: PCT/US03/18657
CURRENT FILING DATE: 2003-06-13
PRIOR APPLICATION NUMBER: 60/388,930
PRIOR FILING DATE: 2002-06-14
NUMBER OF SEQ ID NOS: 4
SOFTWARE: PatentIn version 3.2
SEQ ID NO 1
LENGTH: 36
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: MISC FEATURE
OTHER INFORMATION: Pancreatic polypeptide (PP)
PCT-US03-18657-1

Query Match 29.9%; Score 63; DB 1; Length 36;
Best Local Similarity 32.3%; Pred. No. 0.072;
Matches 10; Conservative 10; Mismatches 11; Indels 0; Gaps 0;

QY 3 PSQPTTPGDPGVEDLIRFYDNIQOMLNCVT 33
DB 2 PLEPVYPGDNATPEQMAQYAADLRRYINMLT 32

RESULT 15
US-09-969-984-16
Sequence 16, Application US/09969984
GENERAL INFORMATION:
APPLICANT: INCYTE GENOMICS, INC.
APPLICANT: TANG, Y. TOM
APPLICANT: YUB, Henry
APPLICANT: TAL, Preeti

APPLICANT: BURFORD, Neil
APPLICANT: BANDMAN, Olga
APPLICANT: BAIGER, Mariah R.
APPLICANT: AZIMZAI, Yaida
APPLICANT: LU, Dzung Anna M.
APPLICANT: PATTERSON, Chandra
TITLE OF INVENTION: EXTRACELLULAR SIGNALING MOLECULES
FILE REFERENCE: PE-0701-1 USA
CURRENT APPLICATION NUMBER: US/09/969,984
CURRENT FILING DATE: 2001-10-02
PRIOR APPLICATION NUMBER: 60/134,949; 60/144,270; 60/146,700; 60/157,508
PRIOR FILING DATE: 1999-05-19; 1999-07-15; 1999-07-30; 1999-10-04
NUMBER OF SEQ ID NOS: 55
SOFTWARE: PERL Program
SEQ ID NO 16
LENGTH: 178
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc feature
OTHER INFORMATION: Incyte ID No: 5037143CD1
US-09-969-984-16

Query Match 29.9%; Score 63; DB 5; Length 178;
Best Local Similarity 32.3%; Pred. No. 0.41;
Matches 10; Conservative 10; Mismatches 11; Indels 0; Gaps 0;

QY 3 PSQPTTPGDPGVEDLIRFYDNIQOMLNCVT 33
DB 31 PLEPVYPGDNATPEQMAQYAADLRRYINMLT 61

Search completed: December 17, 2003, 16:31:36
Job time : 21 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: December 17, 2003, 16:31:41 / Search time 21 seconds
(without alignments)
164.861 Million cell updates/sec

Title: US-10-027-038-11

Perfect score: 211
Sequence: 1 MCPSPQTPYRGPVDELIRFYDNLQOMLNCVTAAAC 36

Scoring table: BLOSUM62
Gapop 10.0, Gapext 0.5

Searched: 283308 seqs, 96168682 residues

Total number of hits satisfying chosen parameters: 283308

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :
1: p1r1:*
2: p1r2:*
3: p1r3:*
4: p1r4:*

Pred. NO. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	143	67.8	36	2	A28578
2	137	64.9	80	1	PCCH
3	125	59.2	36	1	PCNO
4	119	56.4	36	1	PCGS
5	90	42.7	36	2	S07052
6	86	40.8	36	1	NYPGY
7	84	39.8	36	2	A30485
8	84	39.8	36	2	B30485
9	84	39.8	97	1	NHYUY
10	84	39.8	97	2	A41979
11	84	39.8	98	2	A25916
12	82	38.9	98	2	C41979
13	81	38.4	36	2	A48540
14	81	38.4	36	2	A33393
15	81	38.4	97	2	JC1460
16	75	35.5	96	2	B41979
17	72	34.1	36	1	PCXA
18	72	34.1	36	1	PCDFY
19	72	34.1	36	1	YYPG
20	72	34.1	36	2	A49743
21	72	34.1	36	2	A60416
22	72	34.1	98	2	A29364
23	72	34.1	104	2	I50808
24	71	33.6	36	1	PCFG
25	71	33.6	36	2	A26377
26	70	33.2	36	2	A28091
27	70	33.2	36	2	S27054
28	68	32.2	36	2	A31358
29	68	32.2	90	2	S34569

30	68	32.2	90	2	S34568	peptide YY precursor
31	68	32.2	97	2	A55914	peptide YY precursor
32	68	32.2	97	2	S33795	peptide YY (clone)
33	64	30.3	36	2	J00365	pancreatic hormone
34	63	29.9	36	1	A61132	pancreatic hormone
35	63	29.9	36	1	D61132	pancreatic hormone
36	63	29.9	36	1	PCPG	pancreatic hormone
37	63	29.9	36	2	C60071	pancreatic hormone
38	63	29.9	93	1	PCDG	pancreatic hormone
39	63	29.9	95	1	PCHU	pancreatic hormone
40	62	29.4	36	1	C61132	pancreatic hormone
41	62	29.4	37	2	S26954	pancreatic hormone
42	62	29.4	66	1	PCBT	peptide YY-related
43	61	28.9	36	1	PCBO	pancreatic hormone
44	61	28.9	100	2	B28261	pancreatic hormone
45	60	28.4	36	2	B60413	pancreatic hormone

ALIGNMENTS

RESULT 1

A28578
pancreatic hormone - ostrich
N.Alternate names: pancreatic polypeptide
C.Species: *Struthio camelus* (ostrich)
C.Date: 19-Nov-1988 #sequence_revision 19-Nov-1988 #text_change 12-Apr-1995
A.Accession: A28578
R.Litchner, D. Oelofsen, W. Int. J. Pept. Protein Res. 29, 739-745, 1987
A.Title: Purification and primary structure of ostrich pancreatic polypeptide.
A.Reference number: A28578; MUID:87307111; PMID:3623804
A.Accession: A28578
A.Molecule type: protein
A.Residues: 1-36 (LIT)
A.Note: The sequence of residues 22-23 was reported as Asn-Asp in Fig. 7 and as Asp-Asn C.Superfamily: pancreatic hormone

Query Match 67.8%; Score 143; DB 2; Length 36;
Best Local Similarity 80.6%; Pred. No. 5.5e-12;
Matches 25; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 3 PSQPTYPGDPGVDELIRFYDNLQOMLNCVT 33
DB 2 PAQPTYPGDDAPVEDLIRFYDNLQOYLNVVT 32

RESULT 2

PCCH

pancreatic hormone precursor - chicken
N.Alternate names: pancreatic polypeptide precursor
N.Contains: pancreatic hormone
C.Species: *Gallus gallus* (chicken)

C.Date: 24-Apr-1984 #sequence_revision 03-Feb-1994 #text_change 16-Jun-2000
A.Accession: UN0776; A38892; A01575
R.Nata, K.; Sugimoto, T.; Kohrt, K.; Hidaka, H.; Hattori, B.; Yamamoto, H.; Yonekura, H.
Gene 130, 183-189, 1993

A.Title: Structure determination and evolution of the chicken cDNA and gene encoding pre-
A.Reference number: UN0776; MUID:93366173; PMID:8359685
A.Accession: UN0776

A.Molecule type: DNA
A.Residues: 1-80 <NA2>

A.Accession: A38892
A.Molecule type: mRNA
A.Residues: 1-80 <NA2>

A.Cross-references: GB:DI3760; NID:G391645; PIDN:BAA02906.1; PID:G391646
R.Kimmel, J.R.; Hayden, L.J.; Pollock, H.G.
J. Biol. Chem. 250, 9369-9376, 1975

A.Title: Isolation and characterization of a new pancreatic polypeptide hormone.
A.Reference number: A01575; MUID:76069270; PMID:1194289
A.Accession: A01575

A.Molecule type: protein

A/Residues: 26-46, 'DN', 49-61 <KIM>
 C/Comment: This protein acts as a regulator of pancreatic and gastrointestinal functions
 C/Genetics:

A/Gene: PPP

A/Introns: 60/2

C/Superfamily: pancreatic hormone

C/Keywords: amidated carboxyl end; hormone; pancreas

F/1-25/Domains: signal sequence #status predicted <SIG>

F/26-61/Product: pancreatic hormone #status experimental <PCH>

F/61/Modified site: amidated carboxyl end (Tyr) (amide in mature form from following gly

Query Match 64.9%; Score 137; DB 1; Length 80;
 Best Local Similarity 80.6%; Pred. No. 8e-11;

Matches 25; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 3 PSQPTYPGDPGPEVDLIRFDNLQOQLNCT 33
 DB 27 PSQPTYPGDDAPVFDLIRFDNLQOQLNCT 57

RESULT 3

PCAO pancreatic hormone - American alligator

N/Alternate names: pancreatic polypeptide

C/Species: Alligator mississippiensis (American alligator)

C/Date: 30-Jun-1987 #sequence_revision 30-Jun-1987 #text_change 08-Dec-1995

C/Accession: A01577; S09341

R/Glover, I.D.; Barlow, D.J.; Pites, J.E.; Wood, S.P.; Tickle, I.J.; Blundell, T.L.; Tat

Bur, J. Biochem. 142, 379-385, 1984

A/Title: Conformational studies on the pancreatic polypeptide hormone family.

A/Reference number: A01577; PMID:84261570; PMID:6745282

A/Accession: A01577

A/Molecule type: protein

A/Residues: 1-36 <GLO>

R/ance, V.; Hamilton, J.W.; Rouse, J.B.; Kimmel, J.R.; Pollock, H.G.

Gen. Comp. Endocrinol. 55, 112-124, 1984

A/Title: Isolation and characterization of reptilian insulin, glucagon, and pancreatic R

epide.

A/Reference number: S07210; PMID:84262419; PMID:6146554

A/Accession: S09341

A/Molecule type: protein

A/Residues: 1-21, 'N', 23-36 <LAN>

C/Superfamily: pancreatic hormone

C/Keywords: amidated carboxyl end; hormone; pancreas

F/1-36/Product: pancreatic hormone #status experimental <PCH>

F/36/Modified site: amidated carboxyl end (Phe) #status experimental

Query Match

Best Local Similarity 59.2%; Score 125; DB 1; Length 36;
 Pred. No. 1.2e-09;

Matches 23; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

QY 3 PSQPTYPGDPGPEVDLIRFDNLQOQLNCT 33
 DB 2 PLQPKYFGDAPVFDLIRFDNLQOQLNCT 32

RESULT 4

PCGS

pancreatic hormone - goose

N/Alternate names: pancreatic polypeptide

C/Species: Anser anser (domestic goose)

C/Date: 30-Jun-1987 #sequence_revision 30-Jun-1987 #text_change 08-Dec-1995

C/Accession: A01576; J00006

R/Glover, I.D.; Barlow, D.J.; Pites, J.E.; Wood, S.P.; Tickle, I.J.; Blundell, T.L.; Tat

Bur, J. Biochem. 142, 379-385, 1984

A/Title: Conformational studies on the pancreatic polypeptide hormone family.

A/Reference number: A01577; PMID:84261570; PMID:6745282

A/Accession: A01576

A/Molecule type: protein

A/Residues: 1-36 <GLO>

R/Xu, Y.; Lin, N.; Zhang, Y.

Sci. Sin. B Chem. Biol. Agric. Med. Barth Sci. 27, 590-592, 1984

A/Title: Isolation and sequence determination of goose pancreatic polypeptide.

A/Reference number: A94237

A/Accession: J00006

A/Molecule type: protein

A/Residues: 1-36 <XTY>

A/Note: 30-Ann was also found

C/Superfamily: pancreatic hormone

C/Keywords: amidated carboxyl end; hormone; pancreas

F/1-36/Product: pancreatic hormone #status experimental <PCH>

F/36/Modified site: amidated carboxyl end (Tyr) #status experimental

Query Match 56.4%; Score 119; DB 1; Length 36;
 Best Local Similarity 80.8%; Pred. No. 7.3e-09;

Matches 21; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 3 PSQPTYPGDPGPEVDLIRFDNLQOQLNCT 28
 DB 2 PSQPTYPGDDAPVFDLIRFDNLQOQLNCT 27

RESULT 5

S07052

neuropeptide Y - sheep

C/Species: Ovis orientalis aries, Ovis ammon aries (domestic sheep)

C/Date: 30-Jun-1992 #sequence_revision 30-Jun-1992 #text_change 06-Dec-1996

C/Accession: S07052

R/Sillard, R.; Agerberth, B.; Mutt, V.; Joernvall, H.

FEBS Lett. 258, 263-265, 1989

A/Title: Sheep neuropeptide Y. A third structural type of a highly conserved peptide.

A/Reference number: S07052; PMID:90092485; PMID:2599092

A/Accession: S07052

A/Molecule type: protein

A/Residues: 1-36 <SIL>

C/Function:

A>Description: neuropeptide inducing a number of behavioral effects including stimulatory

C/Superfamily: pancreatic hormone

C/Keywords: amidated carboxyl end; appetite; hormone; neuropeptide

F/1-36/Product: neuropeptide Y #status experimental <MAT>

F/36/Modified site: amidated carboxyl end (Tyr) #status experimental

Query Match

Best Local Similarity 42.7%; Score 90; DB 2; Length 36;
 Pred. No. 4.2e-05;

Matches 15; Conservative 6; Mismatches 10; Indels 0; Gaps 0;

QY 3 PSQPTYPGDPGPEVDLIRFDNLQOQLNCT 33
 DB 2 PSKPNPGDDAPVFDLIRFDNLQOQLNCT 32

RESULT 6

NYRGY

neuropeptide Y - pig

C/Species: Sus scrofa domestica (domestic pig)

C/Date: 17-Dec-1982 #sequence_revision 17-Dec-1982 #text_change 06-Dec-1996

C/Accession: A01573

R/Tatemoto, K.

Proc. Natl. Acad. Sci. U.S.A. 79, 5485-5489, 1982

A/Title: Neuropeptide Y: complete amino acid sequence of the brain peptide.

A/Reference number: A01573; PMID:83039395; PMID:6957876

A/Accession: A01573

A/Molecule type: protein

A/Residues: 1-36 <YAT>

A/Note: this peptide was isolated from brain (without cerebellum and pituitary) but has

C/Function:

A>Description: neuropeptide inducing a number of behavioral effects including stimulatory

C/Superfamily: pancreatic hormone

C/Keywords: amidated carboxyl end; appetite; hormone; neuropeptide

F/1-36/Product: neuropeptide Y #status experimental <MAT>

F/36/Modified site: amidated carboxyl end (Tyr) #status experimental

Query Match

Best Local Similarity 40.8%; Score 86; DB 1; Length 36;
 Pred. No. 0.00014;

Matches 14; Conservative 7; Mismatches 10; Indels 0; Gaps 0;

F/64/Modified site: amidated carboxyl end (Tyr) (amide in mature form from following gly

Query Match 39.8%; Score 84; DB 2; Length 97;
Best Local Similarity 41.9%; Pred. No. 0.00076;
Matches 13; Conservative 8; Mismatches 10; Indels 0; Gaps 0;

QY 3 PSQPTYPGDPGVEEDLIRFYDNLQOMLNCVT 33
DB 30 PSKPDNPGEDAPADMDARYSALRHYNILIT 60

RESULT 11

A25916

neuropeptide Y precursor - rat

C/Species: Rattus norvegicus (Norway rat)

C/Date: 16-Aug-1988 #sequence revision 16-Aug-1988 #text_change 16-Jul-1999

C/Accession: A27651; A25916; A28657; A30486

R/Larhammar, D.; Ericsson, A.; Persson, H.

Proc. Natl. Acad. Sci. U.S.A. 84, 2068-2072, 1987

A/Title: Structure and expression of the rat neuropeptide Y gene.

A/Reference number: A27651, MUID:87175615, PMID:3031663

A/Accession: A27651

A/Molecule type: DNA

A/Residues: 1-98 <LAR>

A/Cross-references: GB:M15793; NID:g205759; PIDN:AAA41723.1; PID:g205761.

R/Allen, J.; Novotny, J.; Martin, J.; Heinrich, G.

Proc. Natl. Acad. Sci. U.S.A. 84, 2532-2536, 1987

A/Title: Molecular structure of mammalian neuropeptide Y: analysis by molecular cloning

A/Reference number: A25916; MUID:87175708, PMID:3031687

A/Accession: A25916

A/Molecule type: mRNA

A/Residues: 1-98 <ALL>

A/Cross-references: GB:M15880; NID:g205756; PIDN:AAA41722.1; PID:g205757

R/Higuchi, H.; Yang, H.Y.T.; Sabol, S.L.

J. Biol. Chem. 263, 6288-6295, 1988

A/Title: Rat neuropeptide Y precursor gene expression. mRNA structure, tissue distribution

A/Reference number: A28657, MUID:88198174, PMID:2834371

A/Accession: A28657

A/Molecule type: mRNA

A/Residues: 1-98 <HIG>

A/Cross-references: GB:M20373; NID:g205762; PIDN:AAA41724.1; PID:g205763

R/Corder, R.; Galliard, R.C.; Boellen, P.

Regul. Pept. 21, 253-261, 1988

A/Title: Isolation and sequence of rat peptide YY and neuropeptide Y.

A/Reference number: JTF416; MUID:88321122, PMID:3413293

A/Accession: A30486

A/Status: preliminary

A/Molecule type: protein

A/Residues: 30-65 <COR>

A/Function: neuropeptide inducing a number of behavioral effects including stimulatory

C/Superfamily: pancreatic hormone

C/Keywords: amidated carboxyl end; appetite; hormone; neuropeptide

F/1-29/Domain: signal sequence #status predicted <SIG>

F/30-65/Product: neuropeptide Y #status experimental <MAT>

F/65-98/Domain: carboxyl-terminal propeptide #status predicted <CTP>

F/65/Modified site: amidated carboxyl end (Tyr) (amide in mature form from following gly

Query Match 39.8%; Score 84; DB 2; Length 98;
Best Local Similarity 41.9%; Pred. No. 0.00077;
Matches 13; Conservative 8; Mismatches 10; Indels 0; Gaps 0;

QY 3 PSQPTYPGDPGVEEDLIRFYDNLQOMLNCVT 33
DB 31 PSKPDNPGEDAPADMDARYSALRHYNILIT 61

RESULT 12

neuropeptide Y precursor - marbled electric ray

C/Species: Torpedo marmorata (marbled electric ray)

C/Date: 04-Mar-1993 #sequence revision 18-Nov-1994 #text_change 16-Jul-1999

C/Accession: C41979

R/Blomqvist, A.G.; Soderberg, C.; Lundell, I.; Milner, R.J.; Larhammar, D.

Proc. Natl. Acad. Sci. U.S.A. 89, 2350-2354, 1992

A/Title: Strong evolutionary conservation of neuropeptide Y: sequences of chicken, goldf

A/Reference number: A41979; MUID:92196116, PMID:1549597

A/Accession: C41979

A/Status: preliminary; not compared with conceptual translation

A/Molecule type: nucleic acid

A/Residues: 1-98 <BLQ>

A/Cross-references: GB:M67296; NID:9213238; PIDN:AAA49281.1; PID:9213239

A/Note: sequence extracted from NCBI backbone (NCBI:88402)

A/Function: neuropeptide inducing a number of behavioral effects including stimulatory

C/Superfamily: pancreatic hormone

C/Keywords: amidated carboxyl end; appetite; hormone; neuropeptide

F/1-28/Domain: signal sequence #status predicted <SIG>

F/29-64/Product: neuropeptide Y #status predicted <MAT>

F/65-98/Domain: carboxyl-terminal propeptide #status predicted <CTP>

F/64/Modified site: amidated carboxyl end (Tyr) (amide in mature form from following gly

Query Match 38.9%; Score 82; DB 2; Length 98;
Best Local Similarity 41.9%; Pred. No. 0.0014;
Matches 13; Conservative 8; Mismatches 10; Indels 0; Gaps 0;

QY 3 PSQPTYPGDPGVEEDLIRFYDNLQOMLNCVT 33
DB 30 PSKPDNPGEDAPADMDARYSALRHYNILIT 60

RESULT 13

neuropeptide Y - common frog

C/Species: Rana temporaria (common frog)

C/Date: 19-Nov-1993 #sequence revision 18-Nov-1994 #text_change 06-Dec-1996

C/Accession: A48540

R/Key, D.M.; Shaw, C.; Halton, D.W.; Thim, L.; Buchanan, K.D.

Regul. Pept. 37, 143-153, 1992

A/Title: The primary structure and tissue distribution of an amphibian neuropeptide Y.

A/Reference number: A48540; MUID:92169199, PMID:1539111

A/Accession: A48540

A/Status: preliminary

A/Molecule type: protein

A/Residues: 1-36 <MCK>

A/Experimental source: brain

A/Note: sequence extracted from NCBI backbone (NCBI:86111)

A/Function: neuropeptide inducing a number of behavioral effects including stimulatory

C/Superfamily: pancreatic hormone

C/Keywords: amidated carboxyl end; appetite; hormone; neuropeptide

F/1-36/Product: neuropeptide Y #status experimental <MAT>

F/36/Modified site: amidated carboxyl end (Tyr) #status experimental

Query Match 38.4%; Score 81; DB 2; Length 36;
Best Local Similarity 38.7%; Pred. No. 0.00063;
Matches 12; Conservative 9; Mismatches 10; Indels 0; Gaps 0;

QY 3 PSQPTYPGDPGVEEDLIRFYDNLQOMLNCVT 33
DB 2 PSKPDNPGEDAPADMDARYSALRHYNILIT 32

RESULT 14

neuropeptide Y - laughing frog

C/Species: Rana ridibunda (laughing frog)

C/Date: 28-Feb-1992 #sequence revision 28-Feb-1992 #text_change 06-Dec-1996

C/Accession: A39393

R/Charrel, N.; Conlon, J.M.; Danger, J.M.; Fournier, A.; Tonon, M.C.; Vaudry, H.

Proc. Natl. Acad. Sci. U.S.A. 89, 3862-3866, 1992

A/Title: Characterization of melanocortin-releasing-inhibiting factor (melanostatin) from

A/Reference number: A39393; MUID:91219472, PMID:1673794

A/Accession: A39393

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OM protein - protein search, using sw model

Run on: December 17, 2003, 16:28:00 ; Search time 11 seconds
(without alignments)
153.906 Million cell updates/sec

Title: US-10-027-038-11

Sequence: 1 MCFSPQPTYPGDPGVEDLIRFYDNLQOMINCVTAAC 36

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 127863 seqs, 47026705 residues

Total number of hits satisfying chosen parameters: 127863

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-Processing: Minimum Match 0%

Maximum Match 100%

Database : SwissProt_41.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	143	67.8	36	1 PAHO_STRCA	P1567 struthio ca
2	137	64.9	80	1 PAHO_CHICK	P01306 gallus gall
3	130	61.6	36	1 PAHO_LARAR	P41337 latius argen
4	125	59.2	36	1 PAHO_ALIMI	P06305 alligator m
5	106	50.2	36	1 PAHO_ANSAN	P06304 anser anser
6	90	42.7	76	1 NEUY_SHEEP	P14765 ovis aries
7	86	40.8	76	1 NEUY_PIG	P01304 sus scrofa
8	84	39.8	36	1 NEUY_RABIT	P09640 oryctolagus
9	84	39.8	97	1 NEUY_CHICK	P28673 gallus gall
10	84	39.8	97	1 NEUY_HUMAN	P01303 homo sapien
11	84	39.8	97	1 NEUY_MOUSE	P57774 mus musculu
12	84	39.8	97	1 NEUY_MACMU	P09474 macaca mula
13	84	39.8	98	1 NEUY_PAT	P07088 rattus norv
14	82	38.9	98	1 NEUY_TORNA	P28674 torpedo mar
15	81	38.4	36	1 NEUY_RANRI	P29949 rana ridibu
16	81	38.4	97	1 NEUY_TYRNA	P09668 typhlocecte
17	81	38.4	97	1 NEUY_XENLA	P31689 xenopus lae
18	80	37.9	95	1 NEUY_ICTPU	P01303 icetulus p
19	77	36.5	99	1 NEUY_PAROL	P09064 parallelthy
20	76	36.0	96	1 NEUY_BRABE	P09193 brachydanto
21	76	36.0	96	1 NEUY_CIPCA	P09474 cyprinus ca
22	75	35.5	96	1 NEUY_CARAU	P29205 amia calva
23	74	35.1	96	1 NEUY_AMICA	P29205 amia calva
24	73	34.6	99	1 NEUY_DICLA	P09640 dicentrarch
25	72	34.1	36	1 NEUY_ONCMY	P29071 oncorhynch
26	72	34.1	36	1 NEUY_TBRSP	P09474 lepisosteus
27	72	34.1	36	1 NEUY_PIG	P01305 sus scrofa
28	72	34.1	98	1 NEUY_MOUSE	P09682 mus musculu
29	72	34.1	98	1 NEUY_RAT	P10631 rattus norv
30	72	34.1	104	1 NEUY_LAMPF	P48997 lampetra fl
31	71	33.6	36	1 PAHO_RANRI	P31229 rana tempor
32	71	33.6	36	1 NEUY_ONCKI	P09474 oncorhynch
33	70	33.2	36	1 NEUY_GADMO	P80167 gadus morhu

34	70	33.2	36	1 PAHO_RANCA	P15427 rana catesb
35	70	33.2	99	1 NEUY_DICLA	P09639 dicentrarch
36	68	32.2	36	1 NEUY_RABRH	P29206 raja rhina
37	68	32.2	97	1 NEUY_BOVIN	P51694 bos taurus
38	68	32.2	97	1 NEUY_HUMAN	P10082 homo sapien
39	68	31.8	97	1 NEUY_BRABE	P09192 brachydanto
40	65	30.8	36	1 PAHO_RABIT	P41336 oryctolagus
41	64	30.3	36	1 PAHO_CERSI	P37999 ceratotheri
42	64	30.3	36	1 PAHO_DIDMA	P18107 didelphis m
43	63	29.9	36	1 PAHO_EQUZE	P38000 equus zebra
44	63	29.9	36	1 PAHO_MACMU	P33684 macaca mula
45	63	29.9	65	1 PAHO_PIG	P01300 sus scrofa

ALIGNMENTS

RESULT 1	PAHO_STRCA	STANDARD;	PRT;	36 AA.
ID	P1567			
AC	P1567			
DT	01-OCT-1989 (Rel. 12, Created)			
DT	01-OCT-1989 (Rel. 12, Last sequence update)			
DT	15-SEP-2003 (Rel. 42, Last annotation update)			
DE	Pancreatic hormone (Pancreatic polypeptide) (PP).			
OS	Struthio camelus (Ostrich).			
OC	Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;			
OC	Archosauria; Aves; Palaeognathae; Struthioniformes; Struthionidae;			
OC	Struthio.			
ON	NCBI_Taxid=8801;			
RX	SEQUENCE.			
RP	MEDLINE=87307111; PubMed=3623804;			
RA	Litchauer D., Oelofsen W.;			
RT	"Purification and primary structure of ostrich pancreatic			
RT	polypeptide.";			
RL	Int. J. Pept. Protein Res. 29:739-745(1987).			
CC	- FUNCTION: PANCREATIC HORMONE IS SYNTHESIZED IN PANCREATIC ISLETS			
CC	OF LANGERHANS AND ACTS AS A REGULATOR OF PANCREATIC AND			
CC	GASTROINTESTINAL FUNCTIONS.			
CC	- SUBCELLULAR LOCATION: Secreted.			
CC	- SIMILARITY: Belongs to the NPY family.			
DR	PIR; A28578; A28578.			
DR	HSSP; P01306; 1ppr.			
DR	InterPro; IPR001955; Pancreatic_horm.			
DR	Pfam; PF00159; hormone3; 1.			
DR	PRINTS; PR00278; PANCHORMONE.			
DR	SMART; SM00309; PAH; 1.			
DR	PROSITE; PS00265; PANCREATIC_HORMONE_1; 1.			
DR	PROSITE; PS00276; PANCREATIC_HORMONE_2; 1.			
KV	Hormone; Amidation; Pancreas.			
FT	MOD_RES 36			
FT	MOD_RES 36			
FT	SEQUENCE 36 AA; 4209 MW; 679DFDFD2494316C CRC64;			
SO	SEQUENCE			
Query Match	67.8%; Score 143; DB 1; Length 36;			
Best Local Similarity	80.6%; Pred. No. 9.8e-12;			
Matches	25; Conservative 3; Mismatches 3; Indels 0; Gaps 0;			
DB	2 PAOPTYPGDPGVEDLIRFYDNLQOMINCVT 33			
QY	3 PSOPTYPGDPGVEDLIRFYDNLQOMINCVT 33			
DB	2 PAOPTYPGDPGVEDLIRFYDNLQOMINCVT 32			
RESULT 2	PAHO_CHICK	STANDARD;	PRT;	80 AA.
ID	P01306			
AC	P01306			
DT	21-JUL-1986 (Rel. 01, Created)			
DT	01-FEB-1996 (Rel. 33, Last sequence update)			
DT	15-SEP-2003 (Rel. 42, Last annotation update)			
DE	Pancreatic hormone precursor (Pancreatic polypeptide) (PP).			
OS	Gallus gallus (Chicken), and			
OS	Meleagris gallopavo (Common turkey).			

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
 OC Gallus.
 OC NCBI_TaxID=9031, 9103;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC SPECIES=Chicken; TISSUE=Liver;
 RX MEDLINE=9336173; PubMed=8359685;
 RA Nata K., Sugimoto T., Kohri K., Hidaaka H., Hattori E., Yamamoto H.,
 RA Yonekura H., Okamoto H.;
 RT "Structure determination and evolution of the chicken cDNA and gene
 RT encoding prepropancreatic polypeptide.";
 RL Gene 130:183-189(1993).
 RN [2]
 RP SEQUENCE OF 26-61.
 RC SPECIES=Chicken; PubMed=1194289;
 RX MEDLINE=76069270; PubMed=1194289;
 RA Kimmel J.R., Hayden L.J., Pollock H.G.;
 RT "Isolation and characterization of a new pancreatic polypeptide
 RT hormone.";
 RL J. Biol. Chem. 250:9369-9376(1975).
 RN [3]
 RP X-RAY CRYSTALLOGRAPHY (1.4 ANGSTROMS).
 RC SPECIES=M.galllopavo;
 RX MEDLINE=84179397; PubMed=6673760;
 RA Glover I., Maneef I., Pites J., Woods S., Moss D., Tickle I.,
 RA Blundell T.L.;
 RT "Conformational flexibility in a small globular hormone: X-ray
 RT analysis of avian pancreatic polypeptide at 0.98-A resolution.";
 RL Biopolymers 22:293-304(1983).
 CC -1- FUNCTION: PANCREATIC HORMONE IS SYNTHESIZED IN PANCREATIC ISLETS
 CC OF LANGERHANS AND ACTS AS A REGULATOR OF PANCREATIC AND
 CC GASTROINTESTINAL FUNCTIONS.
 CC -1- SUBCELLULAR LOCATION: Secreted.
 CC -1- SIMILARITY: Belongs to the NPY family.
 CC -----
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 CC -----
 DR EMBL: D13761; BAA02907.1; -;
 DR EMBL: D13760; BAA02906.1; -;
 DR PIR: JN0776; PCCB.
 DR PIR: JN0776; 15-OCT-91.
 DR InterPro: IPR001955; Pancreatic_horm.
 DR Pfam: PF00159; hormone3.1.
 DR SMART: SM00309; PAH.1.
 DR PROSITE: PS00265; PANCREATIC_HORMONE_1; 1.
 DR PROSITE: PS50276; PANCREATIC_HORMONE_2; 1.
 DR K01276; Cleavage on pair of basic residues; Pancreas; Signal;
 KW Hormone; Cleavage on pair of basic residues; Pancreas; Signal;
 KW Amidation; 3D-structure.
 FT SIGNAL 1 25 POTENTIAL.
 FT CHAIN 26 61 PANCREATIC_HORMONE.
 FT PROPEP 65 80 AMIDATION (G-62 PROVIDE AMIDE GROUP).
 FT MOD_RES 61 61 ND -> DN (IN REF. 2).
 FT CONFLICT 47 48
 FT TURN 35 36
 FT TURN 39 56
 FT HELIX 39 56
 FT TURN 57 58
 SO SEQUENCE 80 AA; 8773 MW; 90B44E27389DB050 CRC64;

RESULT 3
 ID PAHO_LARAR STANDARD; PRT; 36 AA.
 AC P41337;
 DT 01-FEB-1995 (Rel. 31, Created)
 DT 01-FEB-1995 (Rel. 31, Last sequence update)
 DT 15-SEP-2003 (Rel. 42, Last annotation update)
 DE Pancreatic hormone (Pancreatic polypeptide) (Pp).
 OS Larus argentatus (Herring gull).
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 OC Archosauria; Aves; Neognathae; Charadriiformes; Laridae; Larus.
 OC NCBI_TaxID=35669;
 RN [1]
 RP SEQUENCE.
 RC TISSUE=Pancreas;
 RX MEDLINE=94229519; PubMed=8174930;
 RA Barton C.L., Shaw C., Halton D.W., Thim L.;
 RT "Isolation and structural characterisation of herring gull (Larus
 RT argentatus) pancreatic polypeptide.";
 RL Gen. Comp. Endocrinol. 93:255-259(1994).
 CC -1- FUNCTION: PANCREATIC HORMONE IS SYNTHESIZED IN PANCREATIC ISLETS
 CC OF LANGERHANS AND ACTS AS A REGULATOR OF PANCREATIC AND
 CC GASTROINTESTINAL FUNCTIONS.
 CC -1- SUBCELLULAR LOCATION: Secreted.
 CC -1- SIMILARITY: Belongs to the NPY family.
 DR HSSP: P01306; 1PPT.
 DR InterPro: IPR001955; Pancreatic_horm.
 DR Pfam: PF00159; hormone3.1.
 DR SMART: SM00309; PAH.1.
 DR PROSITE: PS00265; PANCREATIC_HORMONE_1; 1.
 DR PROSITE: PS50276; PANCREATIC_HORMONE_2; 1.
 KW Hormone; Amidation; Pancreas.
 FT MOD_RES 36 36 AMIDATION.
 SO SEQUENCE 36 AA; 4237 MW; 67831F38349C9BCE CRC64;

Query Match 61.6%; Score 130; DB 1; Length 36;
 Best Local Similarity 74.2%; Pred. No. 4; 1e-10;
 Matches 23; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY 3 PSQPTYPGDPGPEVDLIRFYDNLQOMLNCVT 33
 DB 2 PVQPTYPGDDAPVDLIRFYDNLQOYLNVVT 32

RESULT 4
 ID PAHO_ALIMI STANDARD; PRT; 36 AA.

AC P06305;
 DT 01-JAN-1988 (Rel. 06, Created)
 DT 01-JAN-1988 (Rel. 06, Last sequence update)
 DT 15-SEP-2003 (Rel. 42, Last annotation update)
 DE Pancreatic hormone (Pancreatic polypeptide) (Pp).
 OS Alligator mississippiensis (American alligator).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Archosauria; Crocodylia; Alligatorinae; Alligator.
 OC NCBI_TaxID=8496;
 RN [1]
 RP SEQUENCE.
 RC MEDLINE=84261570; PubMed=6745282;
 RX Glover I.D., Barlow D.J., Pites J.B., Wood S.P., Tickle I.J.,
 RA Blundell T.L., Tatemoto K., Kimmel J.R., Mollmer A.,
 RA Strassburger W., Zhang Y.S.;
 RT "Conformational studies on the pancreatic polypeptide hormone
 RT family.";
 RL Eur. J. Biochem. 142:379-385(1994).
 RN [2]

RP SEQUENCE.
 RC MEDLINE=84262419; PubMed=6146554;
 RX Vance V., Hamilton J.W., Rouse J.B., Kimmel J.R., Pollock H.G.;
 RA "Isolation and characterization of reptilian insulin, glucagon, and
 RA pancreatic polypeptide: complete amino acid sequence of alligator
 RT (Alligator mississippiensis) insulin and pancreatic polypeptide.";

DR PRINTS, PRO0276; PANCROMONE.
 DR Prodom; PD001267; Pancreatic_hormu; 1.
 DR SMART; SM00309; PAH; 1.
 DR PROSITE; PS00265; PANCREATIC_HORMONE_1; 1.
 DR PROSITE; PS00276; PANCREATIC_HORMONE_2; 1.
 DR Neuropeptide; Amidation.
 FT MOD_RES 36
 SQ SEQUENCE 36 AA; 4273 MW; 0D06921202CD0D6 CRC64;

Query Match 39.8%; Score 84; DB 1; Length 36;
 Best Local Similarity 41.9%; Pred. No. 0.00023;
 Matches 13; Conservative 8; Mismatches 10; Indels 0; Gaps 0;

QY 3 PSQPTYPGDPGVEDLIRFYDNLQQMLNCTV 33
 DB 2 PSKPDNPGDPAEDMARRYSAIRHYINLT 32

RESULT 9
 ID NEUY CHICK STANDARD; PRT; 97 AA.
 AC P28673;
 DT 01-DEC-1992 (Rel. 24, Created)
 DT 01-DEC-1992 (Rel. 24, Last sequence update)
 DT 15-SEP-2003 (Rel. 42, Last annotation update)
 DE Neuropeptide Y precursor [Contains: Neuropeptide Y (Neuropeptide tyrosine) (NPY); C-flanking peptide of NPY (CPON)].
 GN NPY.
 OS Gallus gallus (Chicken).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae; Gallus.
 OC NCBI_Taxid=9031;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Brain;
 RX MEDLINE=92196116; PubMed=1549597;
 RA Blomqvist A.G., Soederberg C., Lundell I., Milner R.J., Larhammar D.;
 RA "Strong evolutionary conservation of neuropeptide Y: sequences of chicken, goldfish, and Torpedo marmorata DNA clones.";
 RT Proc. Natl. Acad. Sci. U.S.A. 89:2350-2354(1992).
 CC -1- FUNCTION: NPY IS IMPLICATED IN THE CONTROL OF FEEDING AND IN SECRETION OF GONADOTROPIN-RELEASE HORMONE.
 CC -1- SUBCELLULAR LOCATION: Secreted.
 CC -1- SIMILARITY: Belongs to the NPY family.
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 CC EMBL; M87294; AAA48991.1; -
 CC EMBL; M87295; AAA48992.1; -
 CC EMBL; M87298; AAA48992.1; JOINED.
 CC PIR; A1979; A1979.
 CC HSSP; P01303; IRON.
 CC InterPro; IPR001955; Pancreatic_hormn.
 CC Pfam; PF00159; hormones; 1.
 CC PRINTS; PR00278; PANCROMONE.
 CC Prodom; PD001267; Pancreatic_hormu; 1.
 CC SMART; SM00309; PAH; 1.
 CC PROSITE; PS00265; PANCREATIC_HORMONE_1; 1.
 CC PROSITE; PS00276; PANCREATIC_HORMONE_2; 1.
 CC Neuropeptide; Cleavage on pair of basic residues; Signal; Amidation.
 FT SIGNAL 1 28
 FT PREPIDE 29 64
 FT PEPTIDE 68 97
 FT MOD_RES 64 64
 FT SEQUENCE 97 AA; 11097 MW; 9C924B082DB27CB CRC64;

Query Match 39.8%; Score 84; DB 1; Length 97;
 Best Local Similarity 41.9%; Pred. No. 0.00069;
 Matches 13; Conservative 8; Mismatches 10; Indels 0; Gaps 0;

QY 3 PSQPTYPGDPGVEDLIRFYDNLQQMLNCTV 33
 DB 30 PSKPDNPGDPAEDMARRYSAIRHYINLT 60

RESULT 10
 ID NEUY HUMAN STANDARD; PRT; 97 AA.
 AC P01303;
 DT 21-JUL-1986 (Rel. 01, Created)
 DT 21-JUL-1986 (Rel. 01, Last sequence update)
 DT 15-SEP-2003 (Rel. 42, Last annotation update)
 DE Neuropeptide Y precursor [Contains: Neuropeptide Y (Neuropeptide tyrosine) (NPY); C-flanking peptide of NPY (CPON)].
 GN NPY.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
 OC NCBI_Taxid=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=84272678; PubMed=6589611;
 RA Minch C.D., Bloom S.R., Polak J.M., Dixon J.E.;
 RT "Cloning, characterization, and DNA sequence of a human cDNA encoding neuropeptide tyrosine.";
 RT Proc. Natl. Acad. Sci. U.S.A. 81:4577-4581(1984).
 RN [2]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=86304339; PubMed=2427515;
 RA Minch C.D., Andrews P.C., Dixon J.E.;
 RT "Characterization, sequence, and expression of the cloned human neuropeptide Y gene.";
 RT J. Biol. Chem. 261:11974-11979(1986).
 RN [3]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=86140715; PubMed=3753985;
 RA Takeuchi T., Gumiclo D.L., Yamada T., Weisler M.H., Minch C.D., Dixon J.E., Eddy R.E., Shows T.B.;
 RT "Genes encoding pancreatic polypeptide and neuropeptide Y are on human chromosomes 17 and 7.";
 RT J. Clin. Invest. 77:1038-1041(1986).
 RN [4]
 RP SEQUENCE FROM N.A.
 RA Lacy M.;
 RT Submitted (MAR-1998) to the EMBL/GenBank/DBJ databases.
 RN [5]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Brain;
 RX MEDLINE=22388257; PubMed=12477932;
 RA Strussberg R.L., Feinsgold E.A., Grouse L.H., Derge J.G., Klausner R.D., Collins P.S., Wagner L., Shuman C.M., Schuler G.D., Altschul S.F., Zeeberg B., Buettow K.H., Schaefer C.F., Bhac N.K., Hopkins R.F., Jordan T., Moore T., Wax S.I., Wang J., Hsieh F., Diatchenko L., Maruina K., Farmer A.A., Rubin G.M., Hong L., Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E., Brownstein M.J., Ueda T.B., Toshiyuki S., Carrinchi P., Prange C., Raba S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullaly S.J., Boek S.A., McKernan P.J., McKernan K.J., Malek J.A., Gunaratne P.H., Richards S., Morley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W., Villalón D.K., Muzny K.C., Sodergren E.J., Lu X., Gibbs R.A., Fahey J., Helton B., Kettelman M., Madan A., Rodriguez S., Sanchez A., Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G., Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C., Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butlerfield V.S.N., Krzywinski M.I., Skalska U., Smalins D.E., Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
 RT "Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences.";

Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).

RA [6] STRUCTURE BY NMR OF 29-64.

RX MEDLINE=93049324; PubMed=1425680;

RA Darbon H., Bernasau J.-M., Delenze C., Chenu J., Rousset A.,

RA Cambillau C.,

RT "solution conformation of human neuropeptide Y by 1H nuclear magnetic

RT resonance and restrained molecular dynamics.";

RL Eur. J. Biochem. 209:765-771 (1992).

RN [7]

RP STRUCTURE BY NMR OF 29-64.

RX MEDLINE=97161088; PubMed=9008359;

RA Monke S.A., Karagialis G., Howlett G.J., Norton R.S.,

RT "solution structure of human neuropeptide Y.";

RL J. Biomol. NMR 8:379-390 (1996).

RN [8]

RP IDENTIFICATION OF CPON.

RX PubMed=3839058;

RA Allen J.M., Polak J.M., Bloom S.R.,

RT "Presence of the predicted C-flanking peptide of neuropeptide Y (CPON)

RT in tissue extracts.";

RL Neuropeptides 6:95-100 (1985).

CC -1- FUNCTION: NPY IS IMPLICATED IN THE CONTROL OF FEEDING AND IN

CC SECRETION OF GONADOTROPHIN-RELEASE HORMONE.

CC -1- SUBCELLULAR LOCATION: Secreted.

CC -1- TISSUE SPECIFICITY: ONE OF THE MOST ABUNDANT PEPTIDES IN THE

CC NERVOUS SYSTEM. ALSO FOUND IN SOME CHROMAFFIN CELLS OF THE ADRENAL

CC MEDULLA.

CC -1- SIMILARITY: Belongs to the NPY family.

CC -----

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DR EMBL; K01911; AAA59944.1; -

DR EMBL; M14298; AAA59945.1; -

DR EMBL; M14296; AAA59945.1; JOINED.

DR EMBL; M14297; AAA59945.1; JOINED.

DR EMBL; M15789; AAA59946.1; -

DR EMBL; AC004485; -; NOT ANNOTATED CDS.

DR EMBL; BC029497; AAH29497.1; -

DR PIR; A25198; NRYU.

DR PDB; 1R0N; 17-ANG-96.

DR PDB; 1QFA; 08-APR-00.

DR Genew; HGNC:7955; NPY.

DR MIM; 162640; -

DR GO; GO:0005623; C:cell; TAS.

DR GO; GO:0005246; P:calcium channel regulator activity; TAS.

DR GO; GO:0004930; P:G-protein coupled receptor activity; TAS.

DR GO; GO:0005184; P:neuropeptide hormone activity; TAS.

DR GO; GO:0006816; P:calcium ion transport; TAS.

DR GO; GO:0006928; P:cell motility; TAS.

DR GO; GO:0008283; P:cell proliferation; TAS.

DR GO; GO:0007631; P:feeding behavior; TAS.

DR GO; GO:0007187; P:G-protein signaling, coupled to cyclic nucl. . .; TAS.

DR GO; GO:0007273; P:regulation of synapse; TAS.

DR InterPro; IPR001955; Pancreatic_hormn.

DR Pfam; PF00159; hormone3.1.

DR PRINTS; PR00278; PANCHORMON.

DR PRODOM; PD001267; Pancreatic_hormn; 1.

DR SMART; SM00309; PAH; 1.

DR PROSITE; PS00265; PANCREATIC_HORMONE_1; 1.

DR PROSITE; PS00276; PANCREATIC_HORMONE_2; 1.

KV Neuropeptide; Cleavage on pair of basic residues; Signal; Amidation;

KW 3D-structure; Polymorphism.

FT SIGNAL 1 28

FT PREPIDE 29 64 NEUROPEPTIDE Y.

FT PREPIDE 68 97 C-FLANKING PEPTIDE OF NPY.

FT MOD_RES 64 64 AMIDATION (G-65 PROVIDE AMIDE GROUP).

FT VARIANT 7 7 L -> P (IN dbSNP:16139).

FT VARIANT 22 22 /FTID=VAR_014538.

FT VARIANT 53 53 L -> M (IN dbSNP:5571).

FT CONFLICT 38 39 /FTID=VAR_014539.

FT TURN 41 44 R -> G (IN REF. 2).

FT HELIX 45 45

FT TURN 46 63

SO SEQUENCE 97 AA; 10851 MW; 832CF124321718F2 CRC64;

Query Match 39.8%; Score 84; DB 1; Length 97;

Best Local Similarity 41.9%; Pred. No. 0.00069;

Matches 13; Conservative 8; Mismatches 10; Indels 0; Gaps 0;

Cy 3 PSQPTPGDPGPEVDELIRFDNLQOMLNCVT 33

Db 30 PSKEDNPGEDAPADPDARYSALRHYNILIT 60

RESULT 11

NEWY MOUSE STANDARD; PRT; 97 AA.

ID PS7774; Q925V2; Q9ET27;

AC 16-OCT-2001 (Rel. 40, Created)

DT 16-OCT-2001 (Rel. 40, Last sequence update)

DT 15-SEP-2003 (Rel. 42, Last annotation update)

DE Neuropeptide Y precursor [Contains: Neuropeptide Y (Neuropeptide

DE tyrosine) (NPY); C-flanking peptide of NPY (CPON)].

OS NPY.

OS Mus musculus (Mouse).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

OX NCBI_TaxId=10090;

RN [1]

RP SEQUENCE FROM N.A.

RC STRAIN=C57BL/6J; TISSUE=Brain;

RX MEDLINE=21085660; PubMed=11217851;

RA Kawai J., Shingawa A., Shidaka K., Yoshino M., Itoh M., Ishii Y.,

RA Atakawa T., Hara A., Fukunishi Y., Konno H., Adachi J., Fukuda S.,

RA Alzawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamataka I.,

RA Saito T., Okazaki Y., Gojobori T., Bono H., Kasukawa T., Saito R.,

RA Kadota K., Matuda H.A., Ashburner M., Batalov S., Casavant T.,

RA Pleischmann W., Gaasterland T., Giesi C., King B., Kochiwa H.,

RA Kuehl P., Lewis S., Matsuo Y., Nishida I., Pesole G., Quackenbush J.,

RA Schirral L.M., Staudl P., Suzuki R., Tomita M., Wagner L., Washio T.,

RA Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barsh G.,

RA Blake J., Boffelli D., Bojunga N., Carninci P., de Bonaldo M.F.,

RA Brownstein M.J., Bult C., Fletcher C., Fujita M., Gariboldi M.,

RA Gustincich S., Hill D., Hofmann M., Hume D.A., Kamlyu M., Lee N.H.,

RA Lyons P., Marchionni L., Mashima J., Mazzarelli U., Mondavets P.,

RA Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,

RA Saeki H., Sato K., Schoenbach C., Seta T., Shibata Y., Storch K.-F.,

RA Suzuki H., Toyooka K., Wang K.H., Weitz C., Whitaker C., Wilming L.,

RA Wyszewski A., Yoshida K., Hasegawa Y., Kawaji H., Kohsaki S.,

RA Hayashizaki Y.,

RT "Functional annotation of a full-length mouse cDNA collection.";

RL Nature 409:685-690 (2001).

RN [3]

RP SEQUENCE FROM N.A.

RC STRAIN=C57BL/6; TISSUE=Brain;

RX MEDLINE=22388257; PubMed=12477932;

RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,

RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,

RA Altschul S.F., Zeeberg B., Buettow K.H., Schaefer C.F., Bhat N.K.,

RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

RA Diatchenko L., Marusik K., Farmer A.A., Rubin G.M., Hong L.,

RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Schetz T.E.,

RA Brownstein M.J., Ueda T.B., Toshiyuki S., Carninci P., Prange C.,
RA Rana S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullah S.J.,
RA Bosak S.A., McKean P.J., McKernan K.J., Malek J.A., Gamarate P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Holly S.W.,
RA Valladao D.K., Muzny D.M., Sodergren B.J., Lu X., Gibbs R.A.,
RA Fahy J., Helton B., Kettman M., Madan A., Rodriguez S., Sanchez A.,
RA Whiting M., Madan B., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.M., Touchman J.W., Green B.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmitz J., Myers R.M.,
RA Butcherfield Y.S.N., Krzywinski M.I., Skalska U., Smallus D.E.,
RA Scherch A., Schein J.E., Jones S.J.M., Marra M.A.,
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences.",
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN [1]
RP SEQUENCE OF 1-89 FROM N.A.
RC STRAIN=NZO, and SM/J; TISSUE=Brain;
RX MEDLINE=2107529; PubMed=11210195;
RA Taylor B.A., Wnek C., Schroeder D., Phillips S.J.,
RT "Multiple obesity QTLs identified in an intercross between the NZO
RT (New Zealand obese) and the SM (small) mouse strains.",
RL Mamm. Genome 12:95-103(2001).
CC -1- FUNCTION: NPY IS IMPLICATED IN THE CONTROL OF FEEDING AND IN
CC SECRETION OF GONADOTROPHIN-RELEASE HORMONE (BY SIMILARITY).
CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- TISSUE SPECIFICITY: ONE OF THE MOST ABUNDANT PEPTIDES IN THE
CC NERVOUS SYSTEM. ALSO FOUND IN SOME CHROMAFFIN CELLS OF THE ADRENAL
CC MEDULLA.
CC -1- SIMILARITY: Belongs to the NPY family.
CC -----
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CC or send an email to license@isb-sib.ch).
CC -----
CC EMBL; AF273768; AAC00945.1; -
CC DR EMBL; AK029382; BAB24495.1; -
CC DR EMBL; BC043012; AAH43012.1; -
CC DR EMBL; AP286198; AAC01330.1; -
CC DR EMBL; AF286199; AAC01331.1; -
CC DR HSSP; P01303; IRON.
CC DR MGD; MGI:97374; NPY.
CC DR GO; GO:0001664; P:G-protein-coupled receptor binding activity; IDA.
CC DR GO; GO:0008217; P:regulation of blood pressure; IDA.
CC DR InterPro; IPR001955; Pancreatic_hormn.
CC DR Pfam; PF00159; hormones; 1.
CC DR PRINTS; PR00278; PANCCHORMONE.
CC DR ProDom; PD001267; Pancreatic_hormn; 1.
CC DR SMART; SM00309; PAH; 1.
CC DR PROSITE; PS00265; PANCREATIC_HORMONE_1; 1.
CC DR PROSITE; PS50276; PANCREATIC_HORMONE_2; 1.
CC KW Neuropeptide; Cleavage on pair of basic residues; Signal; Amidation.
CC FT SIGNAL; 1 28
CC FT PEPTIDE 29 64 NEUROPEPTIDE Y.
CC FT MOD RES 68 97 C-FLANKING PEPTIDE OF NPY.
CC FT MOD RES 64 64 AMIDATION (G-65 PROVIDE AMIDE GROUP).
CC FT CONFLICT 42 42 A -> R (IN REF. 4).
CC SQ SEQUENCE 97 AA; 10873 MW; 780CE28FA30844B CRC64;

Query Match 39.8%; Score 84; DB 1; Length 97;
Best Local Similarity 41.9%; Pred. No. 0.00069;
Matches 13; Conservative 8; Mismatches 10; Indels 0; Gaps 0;

QY 3 PSQPTPGDPGVEDLIRFYDNLQOMLNCVT 33
Db 30 PSKPDNPGEDAPADMDARYSALRHYINLIT 60

RESULT 12
NPY_MACMU

ID NPY_MACMU STANDARD; PRT; 97 AA.
AC OQXSW6;
DT 15-SEP-2003 (Rel. 42, Created)
DT 15-SEP-2003 (Rel. 42, Last sequence update)
DT 15-SEP-2003 (Rel. 42, Last annotation update)
DE Neuropeptide Y precursor [Contains: Neuropeptide Y (Neuropeptide
DE tyrosine) (NPY); C-flanking peptide of NPY (CPON)].
GN NPY.
OS Macaca mulatta (Rhesus macaque).
OC Bakaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Cercopithecoidea;
OC Cercopithecoidea; Macaca.
CC NCBI_TaxID=9544;
RN [1]
RP SEQUENCE FROM N.A.
RA Adler L.A., Golos T.G., Terasawa E.,
RT "Developmental changes in NPY mRNA expression in female rhesus
RT monkeys.",
RL Submitted (JUN-1999) to the EMBL/GenBank/DBJ databases.
CC -1- FUNCTION: NPY IS IMPLICATED IN THE CONTROL OF FEEDING AND IN
CC SECRETION OF GONADOTROPHIN-RELEASE HORMONE (BY SIMILARITY).
CC -1- SUBCELLULAR LOCATION: Secreted.
CC -1- SIMILARITY: Belongs to the NPY family.
CC -----
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CC or send an email to license@isb-sib.ch).
CC -----
CC EMBL; AF162280; AAD43583.1; -
CC DR HSSP; P01303; IRON.
CC DR InterPro; IPR001955; Pancreatic_hormn.
CC DR Pfam; PF00159; hormones; 1.
CC DR PRINTS; PR00278; PANCCHORMONE.
CC DR ProDom; PD001267; Pancreatic_hormn; 1.
CC DR SMART; SM00309; PAH; 1.
CC DR PROSITE; PS00265; PANCREATIC_HORMONE_1; 1.
CC DR PROSITE; PS50276; PANCREATIC_HORMONE_2; 1.
CC KW Neuropeptide; Cleavage on pair of basic residues; Signal; Amidation.
CC FT SIGNAL; 1 28
CC FT PEPTIDE 29 64 NEUROPEPTIDE Y.
CC FT MOD RES 68 97 C-FLANKING PEPTIDE OF NPY.
CC FT MOD RES 64 64 AMIDATION (G-65 PROVIDE AMIDE GROUP).
CC SQ SEQUENCE 97 AA; 10840 MW; 2D2209BAC20BD55E CRC64;

Query Match 39.8%; Score 84; DB 1; Length 97;
Best Local Similarity 41.9%; Pred. No. 0.00069;
Matches 13; Conservative 8; Mismatches 10; Indels 0; Gaps 0;

QY 3 PSQPTPGDPGVEDLIRFYDNLQOMLNCVT 33
Db 30 PSKPDNPGEDAPADMDARYSALRHYINLIT 60

RESULT 13
NEUT_RAT
ID NEUT_RAT STANDARD; PRT; 98 AA.
AC P07808;
DT 01-AUG-1988 (Rel. 08, Created)
DT 01-AUG-1988 (Rel. 08, Last sequence update)
DT 15-SEP-2003 (Rel. 42, Last annotation update)
DE Neuropeptide Y precursor [Contains: Neuropeptide Y (Neuropeptide
DE tyrosine) (NPY); C-flanking peptide of NPY (CPON)].
GN NPY.
OS Rattus norvegicus (Rat).
OC Bakaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
CC NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A.

RX MEDLINE=87175708; PubMed=3031687; Heinrich G.;
 RA Allen J., Novotny J., Martin J., Martin J.,
 RT "Molecular structure of mammalian neuropeptide Y: analysis by
 RT molecular cloning and computer-aided comparison with crystal
 RT structure of avian homologue.";
 RL Proc. Natl. Acad. Sci. U.S.A. 84:2532-2536(1987).
 RN [2]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=87175615; PubMed=3031663;
 RA Lammann D., Ericsson A., Persson H.;
 RT "Structure and expression of the rat neuropeptide Y gene.";
 RL Proc. Natl. Acad. Sci. U.S.A. 84:2068-2072(1987).
 RN [3]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=88198174; PubMed=2834371;
 RA Hugucl H., Yang H.-Y.T., Sabol S.L.;
 RT "rat neuropeptide Y precursor gene expression, mRNA structure, tissue
 RT distribution, and regulation by glucocorticoids, cyclic AMP, and
 RT photol ester.";
 RL J. Biol. Chem. 263:6288-6295(1988).
 RN [4]
 RP SEQUENCE FROM N.A.
 RX STRAIN=Act/Seghd, BB(DR)/Mor, BN/Sanhd, DA/Bkl, F344/MSd, and
 RC LBN/MSd;
 RA Dracheva T.V., Joe B., Hashimoto A., Dobbins D.E., Wilder R.L.,
 RA Remmers B.F.;
 RT "Polymorphic differences in the neuropeptide Y gene among six
 RT autoimmune disease susceptible and resistant inbred rat strains.";
 RL Submitted (JUN-2001) to the EMBL/Genbank/DBJ databases.
 RN [5]
 RP SEQUENCE OF 30-65.
 RX MEDLINE=88321122; PubMed=3413293;
 RA Corder R., Gallard R.C., Boehlen P.;
 RT "Isolation and sequence of rat peptide Y and neuropeptide Y.";
 RL Regul. Pept. 21:253-261(1988).
 CC -1- FUNCTION: NPY IS IMPLICATED IN THE CONTROL OF FEEDING AND IN
 CC SECRETION OF GONADOTROPHIN-RELEASE HORMONE.
 CC -1- TISSUE SPECIFICITY: ONE OF THE MOST ABUNDANT PEPTIDES IN THE
 CC NERVOUS SYSTEM. ALSO FOUND IN SOME CHROMAFFIN CELLS OF THE ADRENAL
 CC MEDULLA.
 CC -1- SIMILARITY: Belongs to the NPY family.
 CC -----
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 CC -----
 DR EMBL; M15880; AAA41722.1; -;
 DR EMBL; M15793; AAA41723.1; JOINED.
 DR EMBL; M15792; AAA41723.1; JOINED.
 DR EMBL; M20373; AAA41724.1; -;
 DR EMBL; AF392056; AAL28016.1; -;
 DR EMBL; AF392057; AAL28017.1; -;
 DR EMBL; AF392058; AAL28018.1; -;
 DR EMBL; AF392059; AAL28019.1; -;
 DR EMBL; AF392060; AAL28020.1; -;
 DR EMBL; AF392061; AAL28021.1; -;
 DR PIR; A27651; A25916.
 DR HSSP; P01303; IROH.
 DR InterPro; IPR001955; Pancreatic_horm.
 DR Pfam; PF00159; hormones; 1.
 DR PRINTS; PR00278; PANCROMONE.
 DR PRODOM; PD001267; Pancreatic_horm; 1.
 DR SMART; SM00309; PAH; 1.
 DR PROSITE; PS00265; PANCREATIC_HORMONE_1; 1.
 DR PROSITE; PS0276; PANCREATIC_HORMONE_2; 1.
 KW Neuropeptide; Cleavage on pair of basic residues; signal; Amidation.
 FT SIGNAL 1 29
 FT PEPTIDE 30 65 NEUROPEPTIDE Y.

FT PEPTIDE 69 98 C-FLANKING PEPTIDE OF NPY.
 FT MOD RES 65 65 AMIDATION (G-66 PROVIDE AMIDE GROUP).
 SQ SEQUENCE 98 AA; 11033 MW; E7BACEF3A914B7 CRC64;
 Query Match 39.8%; Score 84; DB 1; Length 98;
 Best Local Similarity 41.9%; Pred. No. 0.0007;
 Matches 13; Conservative 8; Mismatches 10; Indels 0; Gaps 0;
 QY 3 PGPPTGDPGPEVDELIRFYDNLQOMLCVNT 33
 Db 31 PGPDPNGEDADADMDARYSALRYHMLIT 61
 RESULT 14
 NEUT TORMA STANDARD; PRT; 98 AA.
 AC P28674;
 DT 01-DEC-1992 (Rel. 24, Created)
 DT 01-DEC-1992 (Rel. 24, Last sequence update)
 DT 15-SEP-2003 (Rel. 42, Last annotation update)
 DE Neuropeptide Y precursor [Contains: Neuropeptide Y (Neuropeptide
 DE tyrosine) (NPY); C-flanking peptide of NPY (CPON)].
 GN NPY.
 OS Torpedo marmorata (Marbled electric ray).
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Chondrichthyes;
 OC Elasmobranchii; Squalia; Hypnosqualia; Pristigaster; Batoidae;
 OC Torpediniformes; Torpedinidae; Torpedo.
 OC NCBI_Taxid=7788;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Optic lobe;
 RX MEDLINE=92196116; PubMed=1549597;
 RA Blomqvist A.G., Soederberg C., Lundell I., Milner R.J.,
 RA Lammann D.;
 RT "Strong evolutionary conservation of neuropeptide Y: sequences of
 RT chicken, goldfish, and Torpedo marmorata DNA clones.";
 RL Proc. Natl. Acad. Sci. U.S.A. 89:2350-2354(1992).
 CC -1- FUNCTION: NPY IS IMPLICATED IN THE CONTROL OF FEEDING AND IN
 CC SECRETION OF GONADOTROPHIN-RELEASE HORMONE.
 CC -1- SUBCELLULAR LOCATION: Secreted.
 CC -1- SIMILARITY: Belongs to the NPY family.
 CC -----
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 CC -----
 DR EMBL; M87296; AAA49281.1; -;
 DR PIR; C41979; C41979.
 DR HSSP; P01303; IROH.
 DR InterPro; IPR001955; Pancreatic_horm.
 DR Pfam; PF00159; hormones; 1.
 DR PRINTS; PR00278; PANCROMONE.
 DR PRODOM; PD001267; Pancreatic_horm; 1.
 DR SMART; SM00309; PAH; 1.
 DR PROSITE; PS00265; PANCREATIC_HORMONE_1; 1.
 DR PROSITE; PS0276; PANCREATIC_HORMONE_2; 1.
 KW Neuropeptide; Cleavage on pair of basic residues; signal; Amidation.
 FT SIGNAL 1 28
 FT PEPTIDE 29 64 NEUROPEPTIDE Y.
 FT PEPTIDE 68 98 C-FLANKING PEPTIDE OF NPY.
 FT MOD RES 64 64 AMIDATION (G-65 PROVIDE AMIDE GROUP).
 SQ SEQUENCE 98 AA; 11468 MW; 7959679CAD64C726 CRC64;
 Query Match 38.9%; Score 82; DB 1; Length 98;
 Best Local Similarity 41.9%; Pred. No. 0.0013;
 Matches 13; Conservative 8; Mismatches 10; Indels 0; Gaps 0;
 QY 3 PGPPTGDPGPEVDELIRFYDNLQOMLCVNT 33

Db 30 PSKPDNPGEGAPADDAKTYSAALHYINLIT 60

RESULT 15

NEUZY RANRL

ID NEUZY RANRL STANDARD; PRT; 36 AA.

AC P29949;

DT 01-APR-1993 (Rel. 25, Created)

DT 01-APR-1993 (Rel. 25, Last sequence update)

DT 15-SEP-2003 (Rel. 42, Last annotation update)

DE Melanostatin (Melanotropin-release-inhibiting factor) (Neuropeptide Y)

OS Rana ridibunda (Laughing frog) (Marsh frog), and

OS Rana temporaria (European common frog).

OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;

OC Amphibia; Batrachia; Anura; Neobatrachia; Ranoidae; Ranidae; Rana.

OX NCBI_TaxID=8406, 8407;

RP SEQUENCE.

RC SPECIES=R. ridibunda; TISSUE=Brain;

RX MEDLINE=91219472; Pubmed=1673794;

RA Charrel N., Conlon J.M., Danger J.-M., Fournier A., Tonon M.-C.,

RA Vaudry H.;

RT "Characterization of melanotropin-release-inhibiting factor

(melanostatin) from frog brain: homology with human neuropeptide Y,"

Proc. Natl. Acad. Sci. U.S.A. 88:3862-3866(1991).

RL [2]

RN SEQUENCE.

RC SPECIES=R. temporaria; TISSUE=Brain;

RX MEDLINE=92169139; Pubmed=1539111;

RA McKay D.M., Shaw C., Halcón D.W., Thim L., Buchanan K.D.;

RT "The primary structure and tissue distribution of an amphibian

neuropeptide Y."

Regul. Pept. 37:143-153(1992).

CC -1- FUNCTION: NPY IS IMPLICATED IN THE CONTROL OF FEEDING AND IN

SECRETION OF GONADOTROPHIN-RELEASE HORMONE. NPY MAY PLAY A

PHYSIOLOGICAL ROLE IN THE REGULATION OF PITUITARY MELANOTROPHS.

CC -1- SUBCELLULAR LOCATION: Secreted.

CC -1- SIMILARITY: Belongs to the NPY family.

DR PIR; A48540; A48540.

DR HSSP; P01303; 1ROW.

DR InterPro; IPR001955; Pancreatic_hormn.

DR Pfam; PF00159; hormone3; 1.

DR PRINTS; PR00278; PANCHEORMONE.

DR ProDom; PD001267; Pancreatic_hormn; 1.

DR SMART; SM00309; PAH; 1.

DR PROSITE; PS00265; PANCREATIC_HORMONE_1; 1.

DR PROSITE; PS00276; PANCREATIC_HORMONE_2; 1.

KW Neuropeptide; Amidation.

FT MOD_RES 36 36 AMIDATION.

SEQ SEQUENCE 36 AA; 4245 MW; 0D145B202CD0DD6 CRC64;

Query Match 38.4%; Score 81; DB 1; Length 36;

Best Local Similarity 38.7%; Pred. No. 0.00055;

Matches 12; Conservative 9; Mismatches 10; Indels 0; Gaps 0;

Oy 3 PSQPTPGDPPGVEDLIRFDNLQWLNACT 33

Db 2 PSKPDNPGEGAPADDAKTYSAALHYINLIT 32

Search completed: December 17, 2003, 16:34:05

Job time : 32 secs

QY	DB	3	PSORTYRDPDPPVADLIRFYNNLOOMLNCVT	33
1	25	PSKRDNGDDDAFADLIRFYNNLOOMLNCVT	55	
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RESULT 2

08SPF7 PRELIMINARY; PRT; 97 AA.

AC 08SPF7, 01-JUN-2002 (TREMBlrel. 21, Created)
 DT 01-JUN-2002 (TREMBlrel. 21, Last sequence update)
 DT 01-MAR-2003 (TREMBlrel. 23, Last annotation update)
 DE Neuropeptide Y precursor.

GN NPY.

OS Ovis aries (Sheep).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Cetartiodactyla; Pecora; Bovidae;

OC Bovidae; Caprinae; Ovis.

OC NCBI_TaxID=9940;

OX NCBI_TaxID=9940;

RN [1]

RP SEQUENCE FROM N.A.

RC STRAIN=ile de France; TISSUE=Hypothalamus;

RA Pilon D., Bruneau G.,

RT "Nucleotide sequence of Ovine preproneuropeptide Y.";

RL Submitted (OCT-2001) to the EMBL/Genbank/DBJ databases.

CC -1- SIMILARITY: BELONGS TO THE NPY / PPY / PYY FAMILY.

DR EMBL; AJ417904; CAD10677.1;

DR InterPro; IPR001955; Pancreatic_hormn.

DR Pfam; PF00159; hormone3; 1.

DR ProDom; PD001267; Pancreatic_hormn; 1.

DR SMART; SM00309; PAH; 1.

DR PROSITE; PS00265; PANGREATIC_HORMONE_1; 1.

DR PROSITE; PS50276; PANGREATIC_HORMONE_2; 1.

DR Amidaion; Signal.

FT SIGNAL 1 28

FT CHAIN 29 64

FT CHAIN 68 97

SQ SEQUENCE 97 AA; 10750 MW; 6C2209A361CF8583 CRC64;

Query Match

Best Local Similarity 42.7%; Score 90; DB 6; Length 97;

Matches 15; Conservative 6; Mismatches 10; Indels 0; Gaps 0;

QY 3 PSQPTYPGDPGVPEDLIRFYDNLQOMLNCVT 33
 DB 30 PSKPDNPGDAPADLARYSALRHYINLIT 60

RESULT 3

09NOMS PRELIMINARY; PRT; 76 AA.

AC 09NOMS; 01-OCT-2000 (TREMBlrel. 15, Created)

DT 01-OCT-2000 (TREMBlrel. 15, Last sequence update)

DT 01-DEC-2001 (TREMBlrel. 19, Last annotation update)

DE Preneuropeptide Y (fragment).

OS Sus scrofa (Pig).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.

OC NCBI_TaxID=9823;

OX NCBI_TaxID=9823;

RN [1]

RP SEQUENCE FROM N.A.

RC TISSUE=Hypothalamus;

RA Matteri R.L.,

RL Submitted (MAY-2000) to the EMBL/Genbank/DBJ databases.

CC -1- SIMILARITY: BELONGS TO THE NPY / PPY / PYY FAMILY.

DR EMBL; AF264083; AAF72538.1;

DR HSP; P01303; IRON.

DR InterPro; IPR001955; Pancreatic_hormn.

DR Pfam; PF00159; hormone3; 1.

DR PRINTS; PR00278; PANCHORMONE.

DR ProDom; PD001267; Pancreatic_hormn; 1.

DR SMART; SM00309; PAH; 1.

DR PROSITE; PS00265; PANGREATIC_HORMONE_1; 1.

DR PROSITE; PS50276; PANGREATIC_HORMONE_2; 1.

DR Amidaion; Neuropeptide.

KM

FT NON TER 1 1
 FT CHAIN 10 >45
 FT NON TER 76 76
 SQ SEQUENCE 76 AA; 8596 MW; 84B40EC2A4F94B2C CRC64;

Query Match
 Best Local Similarity 40.8%; Score 86; DB 6; Length 76;
 Matches 14; Conservative 7; Mismatches 10; Indels 0; Gaps 0;

QY 3 PSQPTYPGDPGVPEDLIRFYDNLQOMLNCVT 33
 DB 11 PSKPDNPGDAPADLARYSALRHYINLIT 41

RESULT 4

09XSM6 PRELIMINARY; PRT; 97 AA.

AC 09XSM6; 01-NOV-1999 (TREMBlrel. 12, Created)

DT 01-NOV-1999 (TREMBlrel. 12, Last sequence update)

DT 01-DEC-2001 (TREMBlrel. 19, Last annotation update)

DE Neuropeptide Y.

GN NPY.

OS Macaca mulatta (Rhesus macaque).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Primates; Catarrhini; Cercopitheciidae;

OC Cercopitheciidae; Macaca.

OC NCBI_TaxID=9544;

OX NCBI_TaxID=9544;

RN [1]

RP SEQUENCE FROM N.A.

RA Abler L.A., Golos T.G., Terasawa E.,

RT "Developmental changes in NPY mRNA expression in female rhesus

monkeys."

RL Submitted (JUN-1999) to the EMBL/Genbank/DBJ databases.

CC -1- SIMILARITY: BELONGS TO THE NPY / PPY / PYY FAMILY.

DR EMBL; AF162280; AAD43583.1;

DR HSP; P01303; IRON.

DR InterPro; IPR001955; Pancreatic_hormn.

DR Pfam; PF00159; hormone3; 1.

DR PRINTS; PR00278; PANCHORMONE.

DR ProDom; PD001267; Pancreatic_hormn; 1.

DR SMART; SM00309; PAH; 1.

DR PROSITE; PS00265; PANGREATIC_HORMONE_1; 1.

DR PROSITE; PS50276; PANGREATIC_HORMONE_2; 1.

DR Amidaion.

KM

SQ SEQUENCE 97 AA; 10840 MW; 2D2209BAC20BD58E CRC64;

Query Match
 Best Local Similarity 39.8%; Score 84; DB 6; Length 97;
 Matches 13; Conservative 8; Mismatches 10; Indels 0; Gaps 0;

QY 3 PSQPTYPGDPGVPEDLIRFYDNLQOMLNCVT 33
 DB 30 PSKPDNPGDAPADLARYSALRHYINLIT 60

RESULT 5

09PS46 PRELIMINARY; PRT; 36 AA.

AC 09PS46; 01-MAY-2000 (TREMBlrel. 13, Created)

DT 01-MAY-2000 (TREMBlrel. 13, Last sequence update)

DT 01-OCT-2001 (TREMBlrel. 18, Last annotation update)

DE Neuropeptide Y, NPY=pancreatic polypeptide homolog.

OS Scyliorhinus canicula (Spotted dogfish) (Spotted catshark).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Chondrichthyes;

OC Elasmobranchii; Galeomorphi; Galeidae; Carcharhiniformes;

OC Scyliorhinidae; Scyliorhinus.

OC NCBI_TaxID=7830;

OX NCBI_TaxID=7830;

RN [1]

RP SEQUENCE.

RX MEDLINE=92396601; PubMed=1523163;

RA Conlon J.M., Bjerning C., Hazon N.,

```

RT "Structural characterization of neuropeptide Y from the brain of the
RT dogfish, Scyliorhinus canicula."
RL Peptides 13:493-497(1992).
CC -1- SIMILARITY: BELONGS TO THE NPY / PPY / PYY FAMILY.
DR HSSP; P01303; IRON.
DR InterPro: IPR001955; Pancreatic_hormn.
DR Pfam; PF00159; hormones; 1.
DR PRINTS; PR00278; PANCHEATC_hormn; 1.
DR ProDom; PD001267; Pancreatic_hormn; 1.
DR SMART; SM00309; PAH; 1.
DR PROSITE; PS00265; PANCHEATC_HORMONE_1; 1.
DR PROSITE; PS50276; PANCHEATC_HORMONE_2; 1.
KW Amidation.
SQ SEQUENCE. 36 AA; 4169 MW; 0D1715D0D9BD0DD6 CRC64;

Query Match
Best Local Similarity 38.9%; Score 82; DB 13; Length 36;
Matches 13; Conservative 8; Mismatches 10; Indels 0; Gaps 0;

QY 3 PSQPTPGDPGPEVDLIRFYDNLQOMLNCVT 33
2 PSKPDNPGDAPADLAKYTSALRYHYNLIT 32

RESULT 6
Q925V2 PRELIMINARY; PRT; 89 AA.
AC Q925V2;
DT 01-DEC-2001 (TREMBLrel. 19, Created)
DT 01-DEC-2001 (TREMBLrel. 19, Last sequence update)
DT 01-MAR-2003 (TREMBLrel. 23, Last annotation update)
DE Neuropeptide Y (Fragment).
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_Taxid=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=SM/J;
RX MEDLINE=21077529; PubMed=11210195;
RA Taylor B.A., Wnek C., Schroeder D., Phillips S.J.;
RT "Multiple obesity QTLs identified in an intercross between the NZO
RL (New Zealand obese) and the SM (small) mouse strains."
CC Mamm. Genome 12:95-103(2001).
DE -1- SIMILARITY: BELONGS TO THE NPY / PPY / PYY FAMILY.
DR EMBL; AF26198; AAG01330.1; -.
DR InterPro: IPR001955; Pancreatic_hormn.
DR Pfam; PF00159; hormones; 1.
DR PRINTS; PR00278; PANCHEATC_hormn; 1.
DR ProDom; PD001267; Pancreatic_hormn; 1.
DR SMART; SM00309; PAH; 1.
DR PROSITE; PS00265; PANCHEATC_HORMONE_1; 1.
DR PROSITE; PS50276; PANCHEATC_HORMONE_2; 1.
KW Amidation.
FT NON_TER.
SQ SEQUENCE. 89 AA; 9943 MW; AB6052615A59D96A CRC64;

Query Match
Best Local Similarity 38.4%; Score 81; DB 11; Length 89;
Matches 13; Conservative 8; Mismatches 10; Indels 0; Gaps 0;

QY 3 PSQPTPGDPGPEVDLIRFYDNLQOMLNCVT 33
30 PSKPDNPGDAPADLAKYTSALRYHYNLIT 60

RESULT 7
Q90WF4 PRELIMINARY; PRT; 99 AA.
AC Q90WF4;
DT 01-DEC-2001 (TREMBLrel. 19, Created)
DT 01-DEC-2001 (TREMBLrel. 19, Last sequence update)
DT 01-MAR-2003 (TREMBLrel. 23, Last annotation update)

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DE Neuropeptide Y.
GN NPY.
OS Parulichthys olivaceus (flounder).
OC Bakaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
OC Acanthomorpha; Acanthopterygii; Percomorpha; Pluromeciformes;
OC Pluromecoidae; Parulichthyidae; Parulichthys.
OX NCBI_Taxid=8255;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Brain;
RA Kurokawa T., Suzuki T.;
RT "Development of neuropeptide Y related peptides in the digestive
RT organs during the larval stage of Japanese flounder, Parulichthys
RT olivaceus."
CC Submitted (FEB-2001) to the EMBL/GenBank/DBJ databases.
CC -1- SIMILARITY: BELONGS TO THE NPY / PPY / PYY FAMILY.
DR EMBL; AB055211; BAB62409.1; -.
DR InterPro: IPR001955; Pancreatic_hormn.
DR Pfam; PF00159; hormones; 1.
DR PRINTS; PR00278; PANCHEATC_hormn; 1.
DR ProDom; PD001267; Pancreatic_hormn; 1.
DR SMART; SM00309; PAH; 1.
DR PROSITE; PS00265; PANCHEATC_HORMONE_1; 1.
DR PROSITE; PS50276; PANCHEATC_HORMONE_2; 1.
KW Amidation.
SQ SEQUENCE. 99 AA; 11215 MW; 6FEBD47E24CE6498 CRC64;

Query Match
Best Local Similarity 36.5%; Score 77; DB 13; Length 99;
Matches 12; Conservative 8; Mismatches 11; Indels 0; Gaps 0;

QY 3 PSQPTPGDPGPEVDLIRFYDNLQOMLNCVT 33
30 PVKPNPGDAPADLAKYTSALRYHYNLIT 60

RESULT 8
Q9D6K7 PRELIMINARY; PRT; 96 AA.
AC Q9D6K7;
DT 01-MAR-2001 (TREMBLrel. 16, Created)
DT 01-MAR-2001 (TREMBLrel. 16, Last sequence update)
DT 01-DEC-2001 (TREMBLrel. 19, Last annotation update)
DE Neuropeptide Y (Common carp).
OS Cyprinus carpio (Common carp).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes;
OC Cyprinidae; Cyprinus.
OX NCBI_Taxid=7962;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Brain;
RA Yingwen L., Takeishi Y.;
RT "Daily rhythmic gene expression of neuropeptide Y in discrete brain of
RT common carp, Cyprinus carpio, under the condition of self feeding."
CC Submitted (JUL-2000) to the EMBL/GenBank/DBJ databases.
CC -1- SIMILARITY: BELONGS TO THE NPY / PPY / PYY FAMILY.
DR EMBL; AF287347; AAG00549.1; -.
DR HSSP; P01303; IRON.
DR InterPro: IPR001955; Pancreatic_hormn.
DR Pfam; PF00159; hormones; 1.
DR PRINTS; PR00278; PANCHEATC_hormn; 1.
DR ProDom; PD001267; Pancreatic_hormn; 1.
DR SMART; SM00309; PAH; 1.
DR PROSITE; PS00265; PANCHEATC_HORMONE_1; 1.
DR PROSITE; PS50276; PANCHEATC_HORMONE_2; 1.
KW Amidation.
SQ SEQUENCE. 96 AA; 10987 MW; C6C5ABCD87688980 CRC64;

Query Match
Best Local Similarity 36.0%; Score 76; DB 13; Length 96;
Matches 11; Conservative 10; Mismatches 10; Indels 0; Gaps 0;

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QY 3 PSQPTYPGDPGVEDLIRFYDNLQOMLNCVT 33
 DB 30 PTKEDNPGEDAPAEELAKYISALRYHYNLT 60

RESULT 9

Q9TR93 PRELIMINARY; PRT; 36 AA.
 AC Q9TR93;
 DT 01-MAY-2000 (TREMBlrel. 13, Created)
 DT 01-MAY-2000 (TREMBlrel. 13, Last sequence update)
 DT 01-OCT-2001 (TREMBlrel. 18, Last annotation update)
 DE Peptide YY, PYY(1-36).
 OS Oryctolagus cuniculus (Rabbit).
 OC Bkaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Lagomorpha; Leporidae; Oryctolagus.
 OC NCBI_TaxID=9986;
 RX MEDLINE=95075735; PubMed=7984499;
 RA Grand D., Schindczek M., Struk K., Shively J., Byssesele V.E.,
 RA Goebel H., Reeve J.R., Jr.;
 RT "Characterization of two forms of peptide YY, PYY(1-36) and PYY(3-36),
 in the rabbit."
 RL Peptides 15:815-820(1994).
 CC -1- SIMILARITY: BELONGS TO THE NPY / PYY / PYY FAMILY.
 DR HSP, P01303; IRON
 DR InterPro: IPR001955; Pancreatic_horm.
 DR Pfam; PF00159; hormones; 1.
 DR PRINTS; PR00278; PANCCHROMONE.
 DR ProDom; PD001267; Pancreatic_horm; 1.
 DR SMART; SM00309; PAH; 1.
 DR PROSITE; PS00265; PANCREATIC_HORMONE_1; 1.
 DR PROSITE; PS50276; PANCREATIC_HORMONE_2; 1.
 DR Annotation.
 KW AMIDATION.
 SQ SEQUENCE 36 AA; 4285 MW; 02D499C806DCC64;

Query Match 35.1%; Score 74; DB 6; Length 36;
 Best Local Similarity 45.2%; Pred. No. 0.0052;
 Matches 14; Conservative 7; Mismatches 10; Indels 0; Gaps 0;

QY 3 PSQPTYPGDPGVEDLIRFYDNLQOMLNCVT 33
 DB 2 PSKPEAPGEDASPEELNRYASLRHYNLVT 32

Q9JHE7 PRELIMINARY; PRT; 36 AA.
 AC Q9JHE7;
 DT 01-OCT-2002 (TREMBlrel. 22, Created)
 DT 01-OCT-2002 (TREMBlrel. 22, Last sequence update)
 DT 01-MAR-2003 (TREMBlrel. 23, Last annotation update)
 DE Neuropeptide Y (Fragment).
 GN NPY.
 OS Siniperca chuatsi (Chinese perch).
 OC Bkaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
 OC Acanthomorphi; Acanthopterygii; Perciformes; Percoidae;
 OC Siniperclidae; Siniperca.
 OC NCBI_TaxID=119488;
 RX [1]
 SEQUENCE FROM N.A.

RA Liang X., Bai J., Lao H.;
 RT "Mandarin fish (Siniperca chuatsi) NPY mature peptide."
 RL Submitted (MAY-2002) to the EMBL/GenBank/DBJ databases.
 DR EMBL; AF514858; AAM51821.1;
 DR InterPro: IPR001955; Pancreatic_horm.
 DR Pfam; PF00159; hormones; 1.
 DR PRINTS; PR00278; PANCCHROMONE.
 DR ProDom; PD001267; Pancreatic_horm; 1.
 DR SMART; SM00309; PAH; 1.

DR PROSITE; PS00265; PANCREATIC_HORMONE_1; 1.
 DR PROSITE; PS50276; PANCREATIC_HORMONE_2; 1.
 FT NON TER 1 1
 FT NON TER 36 36
 SQ SEQUENCE 36 AA; 4267 MW; 17A32293A8667CC6 CRC64;

Query Match 34.6%; Score 73; DB 13; Length 36;
 Best Local Similarity 35.5%; Pred. No. 0.0071;
 Matches 11; Conservative 9; Mismatches 11; Indels 0; Gaps 0;

QY 3 PSQPTYPGDPGVEDLIRFYDNLQOMLNCVT 33
 DB 2 PVKPEAPGEDAPAEELAKYISALRYHYNLT 32

RESULT 11
 Q91XD0 PRELIMINARY; PRT; 98 AA.
 ID Q91XD0;
 AC Q91XD0;
 DT 01-DEC-2001 (TREMBlrel. 19, Created)
 DT 01-DEC-2001 (TREMBlrel. 19, Last sequence update)
 DT 01-MAR-2003 (TREMBlrel. 23, Last annotation update)
 DE Unknown (Protein for MGC:19143).
 OS Mus musculus (Mouse).
 OC Bkaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OC NCBI_TaxID=10090;
 RX [1]
 SEQUENCE FROM N.A.

RP TIS8DB-Colon;
 RC Strauberg R.;
 RL Submitted (JUL-2001) to the EMBL/GenBank/DBJ databases.
 CC -1- SIMILARITY: BELONGS TO THE NPY / PYY / PYY FAMILY.
 DR EMBL; BC010821; AAH10821.1;
 DR InterPro: IPR001955; Pancreatic_horm.
 DR Pfam; PF00159; hormones; 1.
 DR PRINTS; PR00278; PANCCHROMONE.
 DR ProDom; PD001267; Pancreatic_horm; 1.
 DR SMART; SM00309; PAH; 1.
 DR PROSITE; PS00265; PANCREATIC_HORMONE_1; 1.
 DR PROSITE; PS50276; PANCREATIC_HORMONE_2; 1.
 DR Annotation.
 KW AMIDATION.
 SQ SEQUENCE 98 AA; 11064 MW; 7AF165A1052C3249 CRC64;

Query Match 34.1%; Score 72; DB 11; Length 98;
 Best Local Similarity 41.9%; Pred. No. 0.029;
 Matches 13; Conservative 8; Mismatches 10; Indels 0; Gaps 0;

QY 3 PSQPTYPGDPGVEDLIRFYDNLQOMLNCVT 33
 DB 30 PAKPEAPGEDASPEELNRYASLRHYNLVT 60

RESULT 12
 Q9TR92 PRELIMINARY; PRT; 34 AA.
 ID Q9TR92;
 AC Q9TR92;
 DT 01-MAY-2000 (TREMBlrel. 13, Created)
 DT 01-MAY-2000 (TREMBlrel. 13, Last sequence update)
 DT 01-OCT-2001 (TREMBlrel. 18, Last annotation update)
 DE Peptide YY, PYY(3-36).
 OS Oryctolagus cuniculus (Rabbit).
 OC Bkaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Lagomorpha; Leporidae; Oryctolagus.
 OC NCBI_TaxID=9986;
 RX [1]
 SEQUENCE.

RP MEDLINE=95075735; PubMed=7984499;
 RA Grand D., Schindczek M., Struk K., Shively J., Byssesele V.E.,
 RA Goebel H., Reeve J.R., Jr.;
 RT "Characterization of two forms of peptide YY, PYY(1-36) and PYY(3-36),
 in the rabbit."
 RL Peptides 15:815-820(1994).

CC -1- SIMILARITY: BELONGS TO THE NPV / PPV / PTV FAMILY.
 DR HSP, P01303; IRON.
 DR InterPro; IP001955; Pancreatic_horm.
 DR Pfam; PF00159; hormone3; 1.
 DR ProDom; PD001267; Pancreatic_horm; 1.
 DR SMART; SM00309; PAH; 1.
 DR PROSITE; PS00265; PANCREATIC_HORMONE_1; 1.
 DR PROSITE; PS0276; PANCREATIC_HORMONE_2; 1.
 DR PROSITE; PS0276; PANCREATIC_HORMONE_2; 1.
 KW Annotation.
 SQ SEQUENCE 34 AA; 4024 MW; 02D49C38A5FC8D CRC64;
 Query Match 31.8%; Score 67; DB 6; Length 34;
 Best Local Similarity 43.3%; Pred. No. 0.045;
 Matches 13; Conservative 7; Mismatches 10; Indels 0; Gaps 0;
 QY 4 SCPTTPGDPGVEDLIRFDNLQOMLNCVT 33
 DB 1 SKPEAPGEDASPRELNRYASLRHYTLNLT 30
 RESULT 13
 ID 090WF3 PRELIMINARY; PRT; 99 AA.
 AC 090WF3;
 DT 01-DEC-2001 (TRENBLrel. 19, Created)
 DT 01-DEC-2001 (TRENBLrel. 19, Last sequence update)
 DT 01-MAR-2003 (TRENBLrel. 23, Last annotation update)
 DR Peptide YY.
 GN PYY.
 OS Paralicthys olivaceus (Flounder).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
 OC Acanthomorpha; Acanthopterygii; Perciforma; Pleuronectiformes;
 OC Pleuronectidae; Paralicthidae; Paralicthys.
 OC NCBI_Taxid=8255;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Brain;
 RA Kurikawa T.; Suzuki T.;
 RT "Development of neuropeptide Y related peptides in the digestive
 RT organs during the larval stage of Japanese flounder, Paralicthys
 RT olivaceus";
 RL Submitted (FEB-2001) to the EMBL/GenBank/DBJ databases.
 CC -1- SIMILARITY: BELONGS TO THE NPV / PPV / PTV FAMILY.
 DR EMBL; AB055212; BAB62410.1; -;
 DR InterPro; IP001955; Pancreatic_horm.
 DR Pfam; PF00159; hormone3; 1.
 DR PRINTS; PR00278; PANCREOHORM.
 DR ProDom; PD001267; Pancreatic_horm; 1.
 DR SMART; SM00309; PAH; 1.
 DR PROSITE; PS00265; PANCREATIC_HORMONE_1; 1.
 DR PROSITE; PS0276; PANCREATIC_HORMONE_2; 1.
 KW Annotation.
 SQ SEQUENCE 99 AA; 11179 MW; 32F6C2127CB1984 CRC64;
 Query Match 30.8%; Score 65; DB 13; Length 99;
 Best Local Similarity 35.5%; Pred. No. 0.27;
 Matches 11; Conservative 8; Mismatches 12; Indels 0; Gaps 0;
 QY 3 PSQPTTPGDPGVEDLIRFDNLQOMLNCVT 33
 DB 29 PVKPTIPREGATPEADIAKYASLRHYTLNLT 59
 RESULT 14
 ID 08DIF5 PRELIMINARY; PRT; 581 AA.
 AC 08DIF5;
 DT 01-MAR-2003 (TRENBLrel. 23, Created)
 DT 01-MAR-2003 (TRENBLrel. 23, Last sequence update)
 DT 01-MAR-2003 (TRENBLrel. 23, Last annotation update)
 DE T11634 protein.
 GN T11634.

OS Synecchococcus elongatus (Thermosynechococcus elongatus).
 OC Bacteria; Cyanobacteria; Chroococcales; Synecchococcus.
 OC NCBI_Taxid=32046;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=BP-1;
 RX MEDLINE=2225144; PubMed=12240834;
 RA Nakamura Y.; Kaneko T.; Sato S.; Ikeuchi M.; Katoh H.; Sasamoto S.;
 RA Watanabe A.; Iriyuchi M.; Kawashima K.; Kimura T.; Kishida Y.;
 RA Kiyokawa C.; Kohara M.; Matsumoto M.; Matsuno A.; Nakazaki N.;
 RA Shimpō S.; Sugimoto M.; Takeuchi C.; Yamada M.; Tabata S.;
 RT "Complete genome structure of the thermophilic cyanobacterium
 RT Thermosynechococcus elongatus BP-1.";
 RL DNA Res. 9:123-130(2002).
 DR EMBL; AF005374; BAC09186.1; -;
 KW Complete proteome.
 SQ SEQUENCE 581 AA; 63802 MW; 01A8F60A336FBB5B CRC64;
 Query Match 29.9%; Score 63; DB 16; Length 581;
 Best Local Similarity 46.4%; Pred. No. 3.5;
 Matches 13; Conservative 0; Mismatches 15; Indels 0; Gaps 0;
 QY 8 YGQDPGVEDLIRFDNLQOMLNCVTAA 35
 DB 245 YPDQPDIGRLITLYDRCQOMLEALAA 272
 RESULT 15
 ID 08DH44 PRELIMINARY; PRT; 250 AA.
 AC 08DH44;
 DT 01-MAR-2003 (TRENBLrel. 23, Created)
 DT 01-MAR-2003 (TRENBLrel. 23, Last sequence update)
 DT 01-MAR-2003 (TRENBLrel. 23, Last annotation update)
 DE T112116 protein.
 GN T112116.
 OS Synecchococcus elongatus (Thermosynechococcus elongatus).
 OC Bacteria; Cyanobacteria; Chroococcales; Synecchococcus.
 OC NCBI_Taxid=32046;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=BP-1;
 RX MEDLINE=2225144; PubMed=12240834;
 RA Nakamura Y.; Kaneko T.; Sato S.; Ikeuchi M.; Katoh H.; Sasamoto S.;
 RA Watanabe A.; Iriyuchi M.; Kawashima K.; Kimura T.; Kishida Y.;
 RA Kiyokawa C.; Kohara M.; Matsumoto M.; Matsuno A.; Nakazaki N.;
 RA Shimpō S.; Sugimoto M.; Takeuchi C.; Yamada M.; Tabata S.;
 RT "Complete genome structure of the thermophilic cyanobacterium
 RT Thermosynechococcus elongatus BP-1.";
 RL DNA Res. 9:123-130(2002).
 DR EMBL; AP005376; BAC09668.1; -;
 KW Complete proteome.
 SQ SEQUENCE 250 AA; 27453 MW; 429AEDF922699165 CRC64;
 Query Match 29.1%; Score 61.5; DB 16; Length 250;
 Best Local Similarity 51.7%; Pred. No. 2.2;
 Matches 15; Conservative 3; Mismatches 10; Indels 1; Gaps 1;
 QY 2 CPSQPTTPGDPGVEDLIRFDNLQOML 29
 DB 162 CDSGTFPGQDAVPERLQGYDHLQVLA 190

Search completed: December 17, 2003, 16:34:34
 Job time : 37 secs

GenCore version 5.1.6
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OM protein - protein search, using SW model

Run on: December 17, 2003, 16:26:20 / Search time 36 seconds
(without alignments)
186.759 Million cell updates/sec

Title: US-10-027-038-11

Percent score: 211
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Searched: 696363 seqs, 186758610 residues

Total number of hits satisfying chosen parameters: 696363

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-Processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database:

Published Applications AA:
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10: /cgn2_6/ptodata/1/pubppa/US09_PUBCOMB.pep:*
11: /cgn2_6/ptodata/1/pubppa/US09_PUBCOMB.pep:*
12: /cgn2_6/ptodata/1/pubppa/US09_NEW_PUB.pep:*
13: /cgn2_6/ptodata/1/pubppa/US10_PUBCOMB.pep:*
14: /cgn2_6/ptodata/1/pubppa/US10_PUBCOMB.pep:*
15: /cgn2_6/ptodata/1/pubppa/US10_PUBCOMB.pep:*
16: /cgn2_6/ptodata/1/pubppa/US10_NEW_PUB.pep:*
17: /cgn2_6/ptodata/1/pubppa/US60_NEW_PUB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	211	100.0	36	US-10-027-038-11
2	206	97.6	35	Sequence 11, Appl
3	193.5	91.7	40	US-10-027-038-22
4	193	91.5	41	US-10-027-038-22
5	171	81.0	37	US-10-027-038-21
6	161	76.3	37	US-10-027-038-4
7	156	73.9	36	US-10-027-038-2
8	155	73.5	36	US-10-027-038-8
9	155	73.5	36	US-10-027-038-5
10	153	72.5	36	US-10-027-038-6
11	147	69.7	33	US-10-027-038-10
12	147	69.7	36	US-10-027-038-9
13	147	69.7	37	US-10-027-038-1
14	137	64.9	36	US-09-840-085-6
15	116	55.0	34	US-09-840-085-54

16	111	52.6	34	US-09-840-085-56	Sequence 56, Appl
17	110	52.1	31	US-09-840-085-59	Sequence 59, Appl
18	110	52.1	34	US-09-840-085-55	Sequence 55, Appl
19	107	50.7	34	US-09-840-085-53	Sequence 53, Appl
20	106	50.2	41	US-09-840-085-49	Sequence 49, Appl
21	101	47.9	31	US-09-840-085-38	Sequence 38, Appl
22	98	46.4	39	US-09-840-085-8	Sequence 8, Appl
23	96	45.5	31	US-09-840-085-32	Sequence 32, Appl
24	96	45.5	41	US-09-840-085-47	Sequence 47, Appl
25	95	45.0	39	US-09-840-085-9	Sequence 9, Appl
26	93	44.1	31	US-09-840-085-60	Sequence 60, Appl
27	91	43.1	50	US-09-840-085-64	Sequence 64, Appl
28	90	42.7	39	US-09-840-085-10	Sequence 10, Appl
29	90	42.7	39	US-09-840-085-11	Sequence 11, Appl
30	90	42.7	39	US-09-840-085-12	Sequence 12, Appl
31	90	42.7	39	US-09-840-085-14	Sequence 14, Appl
32	90	42.7	43	US-09-840-085-62	Sequence 62, Appl
33	90	42.7	50	US-09-840-085-63	Sequence 63, Appl
34	89	42.2	41	US-09-840-085-52	Sequence 52, Appl
35	88	41.7	43	US-09-840-085-61	Sequence 61, Appl
36	86	40.8	36	US-10-038-045-5	Sequence 5, Appl
37	84	39.8	36	US-10-016-969-4	Sequence 4, Appl
38	84	39.8	97	US-10-002-048A-2	Sequence 2, Appl
39	84	39.8	97	US-10-036-542-65	Sequence 65, Appl
40	84	39.8	97	US-10-236-903-6	Sequence 6, Appl
41	84	39.8	97	US-10-205-823-289	Sequence 289, Appl
42	83	39.3	31	US-09-840-085-57	Sequence 57, Appl
43	81	38.4	36	US-10-038-045-3	Sequence 3, Appl
44	78	37.0	15	US-10-197-954-101	Sequence 101, Appl
45	77	36.5	34	US-10-016-969-5	Sequence 5, Appl

ALIGNMENTS

RESULT 1
US-10-027-038-11 ← this case
Sequence 11, Application US/10027038
Publication No. US20030158380A1
GENERAL INFORMATION:
APPLICANT: Quirk, S.
TITLE OF INVENTION: Modular peptide-based reagent
FILE REFERENCE: 1443.026US1
CURRENT APPLICATION NUMBER: US/10/027,038
CURRENT FILING DATE: 2001-12-20
NUMBER OF SEQ ID NOS: 34
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 11
LENGTH: 36
TYPE: PPT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: A peptide backbone.
US-10-027-038-11

Query Match
Best Local Similarity 100.0%; Score 211; DB 12;
Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MCPSPPTYPGDPGPEVDLIRFYDNLQWLNCVTAAAC 36
DB 1 MCPSPPTYPGDPGPEVDLIRFYDNLQWLNCVTAAAC 36

RESULT 2
US-10-027-038-14
Sequence 14, Application US/10027038
Publication No. US20030158380A1
GENERAL INFORMATION:
APPLICANT: Quirk, S.
TITLE OF INVENTION: Modular peptide-based reagent
FILE REFERENCE: 1443.026US1
CURRENT APPLICATION NUMBER: US/10/027,038

CURRENT FILING DATE: 2001-12-20
NUMBER OF SEQ ID NOS: 34
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 14
LENGTH: 35
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: A peptide backbone.
US-10-027-038-14

Query Match 97.6%; Score 206; DB 12; Length 35;
Best Local Similarity 100.0%; Pred. No. 1.8e-19;
Matches 35; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 CPSPQTPGDPGVEDLIRFYDNLQOMLNCVTAC 36
DB 1 CPSPQTPGDPGVEDLIRFYDNLQOMLNCVTAC 35

RESULT 3
US-10-027-038-22
Sequence 22, Application US/10027038
Publication No. US20030158380A1
GENERAL INFORMATION:
APPLICANT: Quirk, S.
TITLE OF INVENTION: Modular peptide-based reagent
FILE REFERENCE: 1443.026US1
CURRENT APPLICATION NUMBER: US/10/027,038
CURRENT FILING DATE: 2001-12-20
NUMBER OF SEQ ID NOS: 34
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 22
LENGTH: 40
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: A peptide-based reagent that combines the SEQ ID
OTHER INFORMATION: NO:18 interactive domain with the SEQ ID NO:11
OTHER INFORMATION: peptide backbone.
US-10-027-038-22

Query Match 91.7%; Score 193.5; DB 12; Length 40;
Best Local Similarity 87.5%; Pred. No. 8.3e-18;
Matches 35; Conservative 0; Mismatches 0; Indels 5; Gaps 1;

QY 2 CPSPQTPGDPGVEDLIRFYDNLQOMLNCVTAC 36
DB 1 CPSPQTPGDPGVEDLIRFYDNLQOMLNCVTAC 40

RESULT 4
US-10-027-038-21
Sequence 21, Application US/10027038
Publication No. US20030158380A1
GENERAL INFORMATION:
APPLICANT: Quirk, S.
TITLE OF INVENTION: Modular peptide-based reagent
FILE REFERENCE: 1443.026US1
CURRENT APPLICATION NUMBER: US/10/027,038
CURRENT FILING DATE: 2001-12-20
NUMBER OF SEQ ID NOS: 34
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 21
LENGTH: 41
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: A peptide-based reagent that combines the SEQ ID
OTHER INFORMATION: NO:15 interactive domain with the SEQ ID NO:11
OTHER INFORMATION: peptide backbone.
US-10-027-038-21

Query Match 91.5%; Score 193; DB 12; Length 41;
Best Local Similarity 85.4%; Pred. No. 9.9e-18;
Matches 35; Conservative 0; Mismatches 0; Indels 6; Gaps 1;

QY 2 CPSPQTPGDPGVEDLIRFYDNLQOMLNCVTAC 36
DB 1 CPSPQTPGDPGVEDLIRFYDNLQOMLNCVTAC 41

RESULT 5
US-10-027-038-4
Sequence 4, Application US/10027038
Publication No. US20030158380A1
GENERAL INFORMATION:
APPLICANT: Quirk, S.
TITLE OF INVENTION: Modular peptide-based reagent
FILE REFERENCE: 1443.026US1
CURRENT APPLICATION NUMBER: US/10/027,038
CURRENT FILING DATE: 2001-12-20
NUMBER OF SEQ ID NOS: 34
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 4
LENGTH: 37
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: A peptide backbone.
US-10-027-038-4

Query Match 81.0%; Score 171; DB 12; Length 37;
Best Local Similarity 90.9%; Pred. No. 5.9e-15;
Matches 30; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 MCPSPQTPGDPGVEDLIRFYDNLQOMLNCVT 33
DB 1 MCPSPQTPGDPGVEDLIRFYDNLQOMLNCVT 33

RESULT 6
US-10-027-038-3
Sequence 3, Application US/10027038
Publication No. US20030158380A1
GENERAL INFORMATION:
APPLICANT: Quirk, S.
TITLE OF INVENTION: Modular peptide-based reagent
FILE REFERENCE: 1443.026US1
CURRENT APPLICATION NUMBER: US/10/027,038
CURRENT FILING DATE: 2001-12-20
NUMBER OF SEQ ID NOS: 34
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 3
LENGTH: 37
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: A peptide backbone.
US-10-027-038-3

Query Match 76.3%; Score 161; DB 12; Length 37;
Best Local Similarity 87.9%; Pred. No. 1.1e-13;
Matches 29; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 MCPSPQTPGDPGVEDLIRFYDNLQOMLNCVT 33
DB 1 MCPSPQTPGDPGVEDLIRFYDNLQOMLNCVT 33

RESULT 7
US-10-027-038-2
Sequence 2, Application US/10027038
Publication No. US20030158380A1
GENERAL INFORMATION:
APPLICANT: Quirk, S.

TITLE OF INVENTION: Modular peptide-based reagent
FILE REFERENCE: 1443.026US1
CURRENT APPLICATION NUMBER: US/10/027,038
CURRENT FILING DATE: 2001-12-20
NUMBER OF SEQ ID NOS: 34
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 2
LENGTH: 36
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: A peptide backbone.
US-10-027-038-2

Query Match 73.9%; Score 156; DB 12; Length 36;
Best Local Similarity 90.3%; Pred. No. 4.9e-13;
Matches 28; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 3 PSQPTYPGDPGVEDLIRFYDNLQQWLNCT 33
DB 2 PSQPTYPGDDAPVEDLIRFYDNLQQYLVVTA 32

RESULT 8
US-10-027-038-8
Sequence 8, Application US/10027038
Publication No. US20030158380A1
GENERAL INFORMATION:
APPLICANT: Oritk, S.
TITLE OF INVENTION: Modular peptide-based reagent
FILE REFERENCE: 1443.026US1
CURRENT APPLICATION NUMBER: US/10/027,038
CURRENT FILING DATE: 2001-12-20
NUMBER OF SEQ ID NOS: 34
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 8
LENGTH: 34
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: A peptide backbone.
US-10-027-038-8

Query Match 73.5%; Score 155; DB 12; Length 34;
Best Local Similarity 87.9%; Pred. No. 6.2e-13;
Matches 29; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 3 PSQPTYPGDPGVEDLIRFYDNLQQWLNCTAA 35
DB 2 PSQPTYPGDDAPVEDLIRFYDNLQQYLVVTA 34

RESULT 9
US-10-027-038-5
Sequence 5, Application US/10027038
Publication No. US20030158380A1
GENERAL INFORMATION:
APPLICANT: Oritk, S.
TITLE OF INVENTION: Modular peptide-based reagent
FILE REFERENCE: 1443.026US1
CURRENT APPLICATION NUMBER: US/10/027,038
CURRENT FILING DATE: 2001-12-20
NUMBER OF SEQ ID NOS: 34
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 5
LENGTH: 36
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: A peptide backbone.
US-10-027-038-5

Query Match 73.5%; Score 155; DB 12; Length 36;

Best Local Similarity 90.3%; Pred. No. 6.6e-13;
Matches 28; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 3 PSQPTYPGDPGVEDLIRFYDNLQQWLNCT 33
DB 2 PSQPTYPGDDAPVEDLIRFYDNLQQYLVVTA 32

RESULT 10
US-10-027-038-6
Sequence 6, Application US/10027038
Publication No. US20030158380A1
GENERAL INFORMATION:
APPLICANT: Oritk, S.
TITLE OF INVENTION: Modular peptide-based reagent
FILE REFERENCE: 1443.026US1
CURRENT APPLICATION NUMBER: US/10/027,038
CURRENT FILING DATE: 2001-12-20
NUMBER OF SEQ ID NOS: 34
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 6
LENGTH: 36
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: A peptide backbone.
US-10-027-038-6

Query Match 72.5%; Score 153; DB 12; Length 36;
Best Local Similarity 90.3%; Pred. No. 1.2e-12;
Matches 28; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 3 PSQPTYPGDPGVEDLIRFYDNLQQWLNCT 33
DB 2 PSQPTYPGDDAPVEDLIRFYDNLQQYLVVTA 32

RESULT 11
US-10-027-038-10
Sequence 10, Application US/10027038
Publication No. US20030158380A1
GENERAL INFORMATION:
APPLICANT: Oritk, S.
TITLE OF INVENTION: Modular peptide-based reagent
FILE REFERENCE: 1443.026US1
CURRENT APPLICATION NUMBER: US/10/027,038
CURRENT FILING DATE: 2001-12-20
NUMBER OF SEQ ID NOS: 34
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 10
LENGTH: 33
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: A peptide backbone.
US-10-027-038-10

Query Match 69.7%; Score 147; DB 12; Length 33;
Best Local Similarity 87.1%; Pred. No. 6.4e-12;
Matches 27; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 3 PSQPTYPGDPGVEDLIRFYDNLQQWLNCT 33
DB 2 PSQPTYPGDDAPVEDLIRFYDNLQQYLVVTA 32

RESULT 12
US-10-027-038-1
Sequence 1, Application US/10027038
Publication No. US20030158380A1
GENERAL INFORMATION:
APPLICANT: Oritk, S.
TITLE OF INVENTION: Modular peptide-based reagent

FILE REFERENCE: 1443.026US1
CURRENT APPLICATION NUMBER: US/10/027.038
CURRENT FILING DATE: 2001-12-20
NUMBER OF SEQ ID NOS: 34
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 1
LENGTH: 36
TYPE: PRT
ORGANISM: Meleagris gallopavo
US-10-027-038-1

Query Match 69.7%; Score 147; DB 12; Length 36;
Best Local Similarity 87.1%; Pred. No. 7e-12;
Matches 27; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 3 PSQPTPGDGPVEDLIRFYDNLQOWINCVT 33
DB 2 PSQPTPGDDAPVEDLIRFYDNLQOYLNVVT 32

RESULT 13
US-10-027-038-9
Sequence 9, Application US/10027038
Publication No. US20030158380A1
GENERAL INFORMATION:
APPLICANT: Quirk, S.
TITLE OF INVENTION: Modular peptide-based reagent
FILE REFERENCE: 1443.026US1
CURRENT APPLICATION NUMBER: US/10/027.038
CURRENT FILING DATE: 2001-12-20
NUMBER OF SEQ ID NOS: 34
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 9
LENGTH: 37
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: A peptide backbone.
US-10-027-038-9

Query Match 69.7%; Score 147; DB 12; Length 37;
Best Local Similarity 87.1%; Pred. No. 7.2e-12;
Matches 27; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 3 PSQPTPGDGPVEDLIRFYDNLQOWINCVT 33
DB 2 PSQPTPGDDAPVEDLIRFYDNLQOYLNVVT 32

RESULT 14
US-09-840-085-6
Sequence 6, Application US/09840085
Publication No. US20030166240A1
GENERAL INFORMATION:
APPLICANT: Schepartz Shrader, Alanna
APPLICANT: Chin, Jason W. K.
APPLICANT: Zutshi, Reena
APPLICANT: Rutledge, Stacey E.
APPLICANT: Kehlbeck Martin, Joanne D.
TITLE OF INVENTION: DNA and Protein Binding Miniature Proteins
FILE REFERENCE: 44574-5099-US
CURRENT APPLICATION NUMBER: US/09/840.085
CURRENT FILING DATE: 2001-04-24
PRIOR APPLICATION NUMBER: US 60/199,408
PRIOR FILING DATE: 2000-04-24
PRIOR APPLICATION NUMBER: US 60/240,566
PRIOR FILING DATE: 2000-10-13
PRIOR APPLICATION NUMBER: US PROVISIONAL
PRIOR FILING DATE: 2001-01-13
PRIOR APPLICATION NUMBER: US PROVISIONAL
PRIOR FILING DATE: 2001-02-23
NUMBER OF SEQ ID NOS: 73

SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 6
LENGTH: 36
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Segment of
US-09-840-085-6

Query Match 64.9%; Score 137; DB 12; Length 36;
Best Local Similarity 80.6%; Pred. No. 1.3e-10;
Matches 25; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 3 PSQPTPGDGPVEDLIRFYDNLQOWINCVT 33
DB 2 PSQPTPGDDAPVEDLIRFYDNLQOYLNVVT 32

RESULT 15
US-09-840-085-54
Sequence 54, Application US/09840085
Publication No. US20030166240A1
GENERAL INFORMATION:
APPLICANT: Schepartz Shrader, Alanna
APPLICANT: Chin, Jason W. K.
APPLICANT: Zutshi, Reena
APPLICANT: Rutledge, Stacey E.
APPLICANT: Kehlbeck Martin, Joanne D.
TITLE OF INVENTION: DNA and Protein Binding Miniature Proteins
FILE REFERENCE: 44574-5099-US
CURRENT APPLICATION NUMBER: US/09/840.085
CURRENT FILING DATE: 2001-04-24
PRIOR APPLICATION NUMBER: US 60/199,408
PRIOR FILING DATE: 2000-04-24
PRIOR APPLICATION NUMBER: US 60/240,566
PRIOR FILING DATE: 2000-10-13
PRIOR APPLICATION NUMBER: US PROVISIONAL
PRIOR FILING DATE: 2001-01-13
PRIOR APPLICATION NUMBER: US PROVISIONAL
PRIOR FILING DATE: 2001-02-23
NUMBER OF SEQ ID NOS: 73
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 54
LENGTH: 34
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: PMW02, MyoD
US-09-840-085-54

Query Match 55.0%; Score 116; DB 12; Length 34;
Best Local Similarity 70.0%; Pred. No. 6.3e-08;
Matches 21; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 3 PSQPTPGDGPVEDLIRFYDNLQOWINCVT 32
DB 2 PSQPTPGDDAPVEDLIRFYDNLQOYLNVVT 31

Search completed: December 17, 2003, 16:32:26
Job time : 37 secs